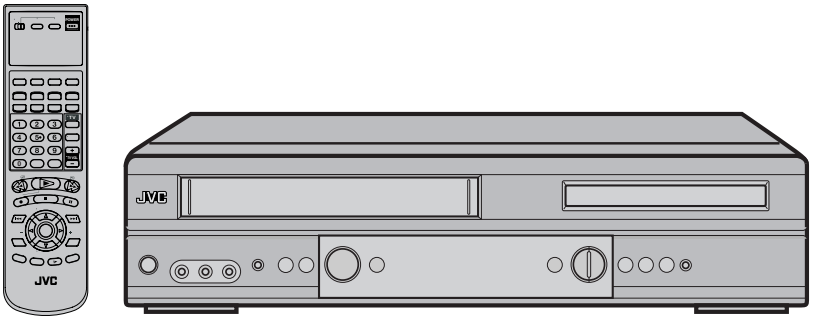
JVC

SERVICE MANUAL

DVD/CD PLAYER Hi-Fi STEREO VIDEO CASSETTE RECORDER

HR-XVC1UJ/M

VHS SQPB
4 HEAD Hi-Fi
19µm HEAD



Regarding service information other than these sections, refer to the service manual No. 82921 (HR-XVC1UJ). Also, be sure to note important safety precautions provided in the service manual.

SPECIFICATIONS

GENERAL

Power supply:	110-220V, 50/60 Hz
Power consumption:	Operation: 22W Stand by: 4W
Weight:	9.9lbs (4.5 kg)
Dimensions:	Width : 16-15/16 inches (430 mm) Height: 3-7/8 inches (99 mm) Depth : 12-1/4 inches (311 mm)
Inputs/Outputs:	
Video:	In: 1Vp-p/75 ohm Out: 1Vp-p/75 ohm
Audio:	In: −8 dBm/50K ohm Out: −8 dBm/1K ohm
Antenna:	UHF/VHF IN/OUT: 75 ohm coaxial
Hi-Fi Frequency Response:	20Hz to 20,000Hz
Hi-Fi Dynamic Range:	More than 90dB

VCR section

Video Head:	4 Rotary Heads
Audio Track:	Hi-Fi Sound - 2 Tracks / MONO Sound - 1 Track
Tuner:	181 Channel Freq. Synthesized VHF 2-13 UHF 14-69 CATV 14-36 (A)-(W) 37-59 (AA)-(WW) 60-85 (AAA)-(ZZZ) 86-94 (86)-(94) 95-99 (A-5)-(A-1) 100-125 (100)-(125) 01 (5A)
RF Channel Output:	Channel 3 or 4, Switchable
F.FWD/REW Time:	Approx. 1 minute 48 seconds (with T-120 Cassette Tape) (at+25°C)

DVD section

Signal system:	NTSC
Applicable disc:	DVD (12cm, 8cm), CD (12cm, 8cm)
Audio characteristics:	DVD: 4Hz - 22KHz
Frequency response:	CD: 4Hz - 20KHz
S/N Ratio:	90dB
Harmonic distortion:	0.02%
Wow and flutter:	Below Measurable Level
Dynamic range:	90dB
Output:	Video : (RCA) 1 Vp-p/75ohm Audio : (RCA) −8 dBm/1Kohm Digital Audio : 0.5Vp-p 75 ohm
Pickup:	CD : Wavelength: 775 - 805 nm Maximum output power: 0.5 mW DVD : Wavelength: 640 - 660 nm Maximum output power: 1.0 mW

ACCESSORIES:

Remote control x 1
Batteries (2 x AA)
75 ohm Coaxial Cable x 1
AUDIO/VIDEO Cable x 1
Conversion plug x 1

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No.82921B
September 2002

TABLE OF CONTENTS

HOW TO IDENTIFY MODELS 1

Circuit board assembly and unit compatibility between HR-XVC1UJ and HR-XVC1UJ/M 1

DIFFERENT TABLE 2

DISASSEMBLY INSTRUCTIONS
1. REMOVAL OF MECHANICAL PARTS AND P.C. BOARDS 1-1
1-5. DECK CD AND DVD MT PCB 1-1
SERVICE MODE LIST 1-1
WHEN REPLACING EEPROM(MEMORY) IC 1-2
SERVO TIMING CHART 1-2
PREPARATION FOR SERVICING 1-3
ELECTRICAL ADJUSTMENTS 1-3
2. ELECTRICAL ADJUSTMENT PARTS LOCATION GUIDE (Connector Connections) 1-3

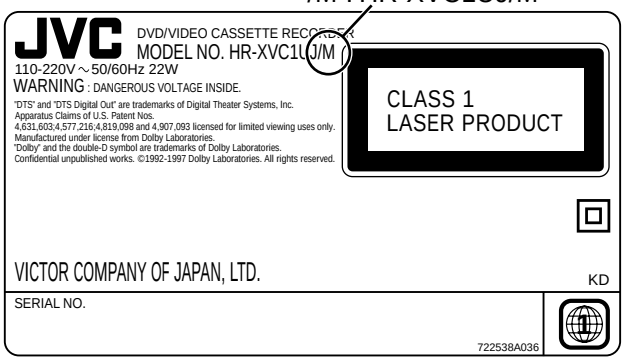
2. CHARTS AND DIAGRAMS (2-1 to 2-36)
INTERCONNECTION DIAGRAM 2-1
MPEG SCHEMATIC DIAGRAM 2-3
MEMORY SCHEMATIC DIAGRAM 2-5
SYSCON1 SCHEMATIC DIAGRAM 2-7
DSP SCHEMATIC DIAGRAM 2-9
MOTOR DRIVE SCHEMATIC DIAGRAM 2-11
READ CHANNEL SCHEMATIC DIAGRAM 2-13
AUDIO/VIDEO SCHEMATIC DIAGRAM 2-15
Y/C/AUDIO/CCD/HEAD AMP SCHEMATIC DIAGRAM 2-17
VCR SYSCON SCHEMATIC DIAGRAM 2-19
TUNER/JACK SCHEMATIC DIAGRAM 2-21
REGULATOR SCHEMATIC DIAGRAM 2-23
OPERATION/DISPLAY SCHEMATIC DIAGRAM 2-25
HI-FI/DEMODULATOR SCHEMATIC DIAGRAM 2-27
DVD IN/OUT SCHEMATIC DIAGRAM 2-29
PRINTED CIRCUIT BOARDS DVD 2-31
PRINTED CIRCUIT BOARDS VCR 3-33

3. PARTS LIST (3-1 to 3-7)
3.1 PACKING AND ACCESSORY ASSEMBLY <M1> 3-1
3.2 ELECTRICAL PART LIST
VCR BOARD ASSEMBLY<03> 3-2
DVD BOARD ASSEMBLY<50> 3-6

HOW TO IDENTIFY MODELS

How to recognize from the appearance of the model concerned is written below.
Please distinguish from several contents currently printed on the rating label of the rear panel or “SPECIALIZER” logo mark of the front panel.

(blank) : HR-XVC1UJ
/M : HR-XVC1UJ/M


JVC
DVD/VIDEO CASSETTE RECORDER
MODEL NO. HR-XVC1UJ/M
110-220V～50/60Hz 22W
WARNING : DANGEROUS VOLTAGE INSIDE.
'DTS' and 'DTS Digital Out' are trademarks of Digital Theater Systems, Inc.
Apparatus Claims of U.S. Patent Nos.
4,631,603;4,577,216;4,819,098 and 4,907,093 licensed for limited viewing uses only.
Manufactured under license from Dolby Laboratories.
"Dolby" and the double-D symbol are trademarks of Dolby Laboratories.
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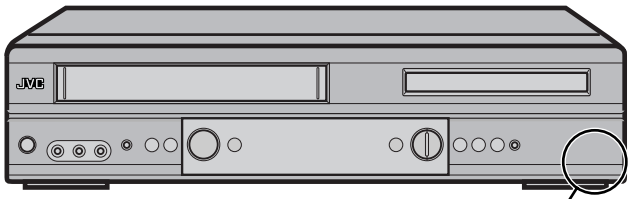
CLASS 1
LASER PRODUCT
VICTOR COMPANY OF JAPAN, LTD.
KD
SERIAL NO.
722538A036

RATING LABEL



"SPECIALIZER" logo mark
3D STEREO : HR-XVC1UJ
N-2-2 : HR-XVC1UJ/M

Circuit board assembly and unit compatibility between HR-XVC1UJ and HR-XVC1UJ/M

Since the same parts are used for the VCR mechanism section and power supply circuit board assembly for the HR-XVC1UJ and HR-XVC1UJ/M, they are interchangeable. However, there is no compatibility for the VCR circuit board, DVD circuit board, and DVD drive unit.

1. The difference in the VCR circuit board is the connection cable that connects to the DVD circuit board. It is not possible to connect an old board to a new board.
2. The difference in the DVD circuit board is the substantial difference in external dimensions. There is also no compatibility in terms of specifications.
   <Reference>
   When an old VCR circuit board is forcibly connected to a new DVD circuit board, there is a terminal that changes HR-XVC1UJ: 3.3V⇒HR-XVC1UJ/M: 9V and the DVD circuit board will be damaged.

3. It is possible to install the DVD drive unit in the chassis. However, since there is no compatibility between the DVD circuit board and the connection cable, it is not possible to connect old and new together.
   <Reference>
   If the entire set of revised parts is exchanged at once (DVD drive unit, VCR circuit board, DVD circuit board (with attachment angle)), the specifications for Spatializer will change from 3D Stereo ⇔ N-2-2. This type of process will cause non-compliance with certified specifications, so do not interchange old and new type parts.

Compatibility

	Old/New Parts Compatibility		
	Mechanical specifications (installation)	Electrical specifications (connection)	Software specifications
DVD drive unit	Yes	No	—
DVD circuit board	No	No	No
DVD circuit board attachment angle	No	—	—
VCR mechanism unit	Yes	Yes	—
VCR circuit board	Yes	Yes	No
Power supply circuit board	Yes	Yes	—

The following table indicates main different points between models HR-XVC1UJ and HR-XVC1UJ/M.

ITEM \ MODEL	HR-XVC1UJ	HR-XVC1UJ/M
SPECIALIZER	3D STEREO	N-2-2

The following table indicates different parts number between models HR-XVC1UJ and HR-XVC1UJ/M.

PACKING AND ACCESSORY ASSEMBLY<M1>

PACKING AND ACCESSORY ASSEMBLY<M1> is indicated on the parts list.

PACKING AND ACCESSORY ASSEMBLY<M1>

⚠ REF NO.	ITEM \ MODEL	HR-XVC1UJ	HR-XVC1UJ/M
2	CORD,RCA PIN	X-06CQBA2001	X-06CPBA2003
8	GIFT BOX	X-793WCDB269	X-793WCDB398
12	INSTRUCTION BOOK	X-J2A30901	X-J2B00501A

FINAL ASSEMBLY<M2>

⚠ REF NO.	ITEM \ MODEL	HR-XVC1UJ	HR-XVC1UJ/M
601	CABINET,FRONT ASSY	X-A2A309E720	X-A2B005C720
606	HOLDER,EOT SENSOR	X-85OP700036	X-85OP700038
608	CABINET,FRONT	X-701WPJB699	X-701WPJB838
610	FLAP	X-712WPJB411	X-712WPJ0758
617	SPRING,FLAP	X-743WKA0039	X-743WKA0042
619	PLATE,BOTTOM	X-702WSA0109	X-702WSA0117
621	SHEET,IC	X-7230007414	X-7230007426
624	SHIELD,FRONT	X-753WSA0148	X-753WSA0153
627	ANGLE,DECK1/ANGLE,DECK	X-761WSA0085	X-761WSA0096
628	ANGLE,DECK2/HOLDER,FFC	X-761WSA0086	X-761WPA0250
633	CABINET,BOTTOM ASSY	X-A2A309E730	X-A2B005C730
634	SHIELD,M-PEG/SHEET,IC	X-752WSA0279	X-7230007461
635	SPRING,EARTH	X-753WUA0061	X-744WUA0013
636	SHEET,PVC/CORD CLIP	X-755WNA0015	X-8995034000
637	SHEET,PVC	X-755WNA0016	—
708	SCREW	—	X-8109I30804
CD102	CORD,JUMPER	X-122F061501	X-122F061502
CD503	CORD,CONNECTOR	X-06CU262201	—
CD2301	CORD,JUMPER	—	X-122H081007
CD2302	CORD,CONNECTOR	—	X-06CU251002
CD2601	CORD,JUMPER	—	X-122H0O2102
CD8002	CORD,JUMPER	X-122S0I2001	X-122H0I1801
⚠DK4001	DECK CD	X-169G00012A	X-169G00014A

VCR BOARD ASSEMBLY<03>

⚠ REF NO.	ITEM \ MODEL	HR-XVC1UJ	HR-XVC1UJ/M
PCB010	VCR BOARD ASSY	X-A2A309E010	X-A2B005C010

MPEG MT BOARD ASSEMBLY<50>

⚠ REF NO.	ITEM \ MODEL	HR-XVC1UJ	HR-XVC1UJ/M
PCB120	MPEG MT BOARD ASSY	X-A2A309E120	—

DVD BOARD ASSEMBLY<50>

⚠ REF NO.	ITEM \ MODEL	HR-XVC1UJ	HR-XVC1UJ/M
PCB130	DVD BOARD ASSY	—	X-A2B005C130

Note: Mark ◄— is same as left.
Mark — is not used.

DISASSEMBLY INSTRUCTIONS

1. REMOVAL OF MECHANICAL PARTS AND P.C. BOARDS

1-5: DECK CD AND DVD MT PCB (Refer to Fig. 1-5)

1. Make the short circuit on the position as shown **Fig. 1-5** using a soldering. If you remove the Deck CD with no soldering, the Laser may be damaged.
2. Disconnect the following connector: (CP503).
3. Remove the 4 screws ①.
4. Remove the Deck Angle in the direction of arrow (A).
5. Remove the 2 screws ②.
6. Remove the Front Shield in the direction of arrow (B).
7. Disconnect the following connectors: (CP2301, CP2302 and CP2601).
8. Remove the 4 screws ③.
9. Remove the Deck CD in the direction of arrow (C).
10. Remove the 4 screws ④.
11. Remove the DVD MT PCB in the direction of arrow (D).

NOTE

When the installation of the Deck CD, remove all the soldering on the short circuit position after the connection of Pick Up PCB and DVD MT PCB connector.

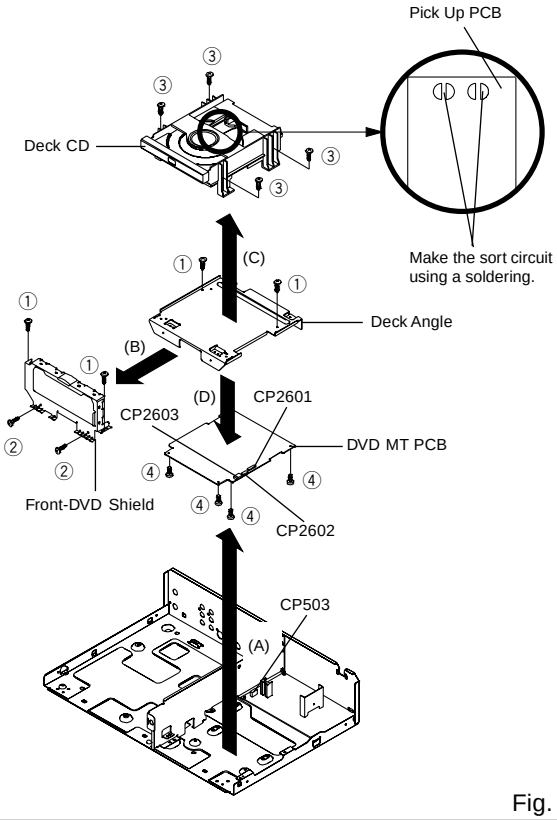


Fig. 1-5

SERVICE MODE LIST

Set Key	Set Key	Standard Time (seconds)	Operations
CH DOWN	POWER	2	VCR operation mode at no connection of DVD. Refer to the “PREPARATION FOR SERVICING” NOTE: Although the DVD is connected, the DVD mode cannot be selected.

Set Key	Remocon Key	Standard Time (seconds)	Operations
REC	5	2	Initialization of the factory on DVD. NOTE: The function will only work without the setting of DVD disc at DVD mode. Do not use this for the normal servicing.

WHEN REPLACING EEPROM (MEMORY) IC

If a service repair is undertaken where it has been required to change the MEMORY IC, the following steps should be taken to ensure correct data settings while making reference to TABLE 1.

NOTE: No need setting for after INI 2D.

INI	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9	+A	+B	+C	+D	+E	+F
00	0A	30	9A	24	64	64	4A	86	0B	2F	86	34	8A	08	0A	0F
10	AF	97	95	8A	A0	55	31	04	88	A5	9F	3A	00	10	BF	00
20	29	02	00	71	66	31	29	04	00	00	00	05	A2	B0	00	---

Table 1

1. Connect the set to TV Monitor.
2. Turn on the POWER.
3. Press both CH UP button on the set and the FF button on the set for more than 2 seconds. ADDRESS and DATA will appear on TV Monitor as Fig 1.
4. ADDRESS is now selected and should “blink”. Using the SET + or - button on the remote, step through the ADDRESS until required ADDRESS to be changed is reached.
5. Press ENTER to select DATA. When DATA is selected, it will “blink”.
6. Again, step through the DATA using SET + or - button until required DATA value has been selected.
7. Pressing ENTER will take you back to ADDRESS for further selection if necessary.
8. Repeat steps 4 to 7 until all data has been checked.
9. When satisfied correct DATA has been entered, turn POWER off (return to STANDBY MODE) to finish DATA input.

The unit will now have the correct DATA for the new MEMORY IC.

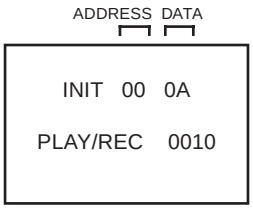
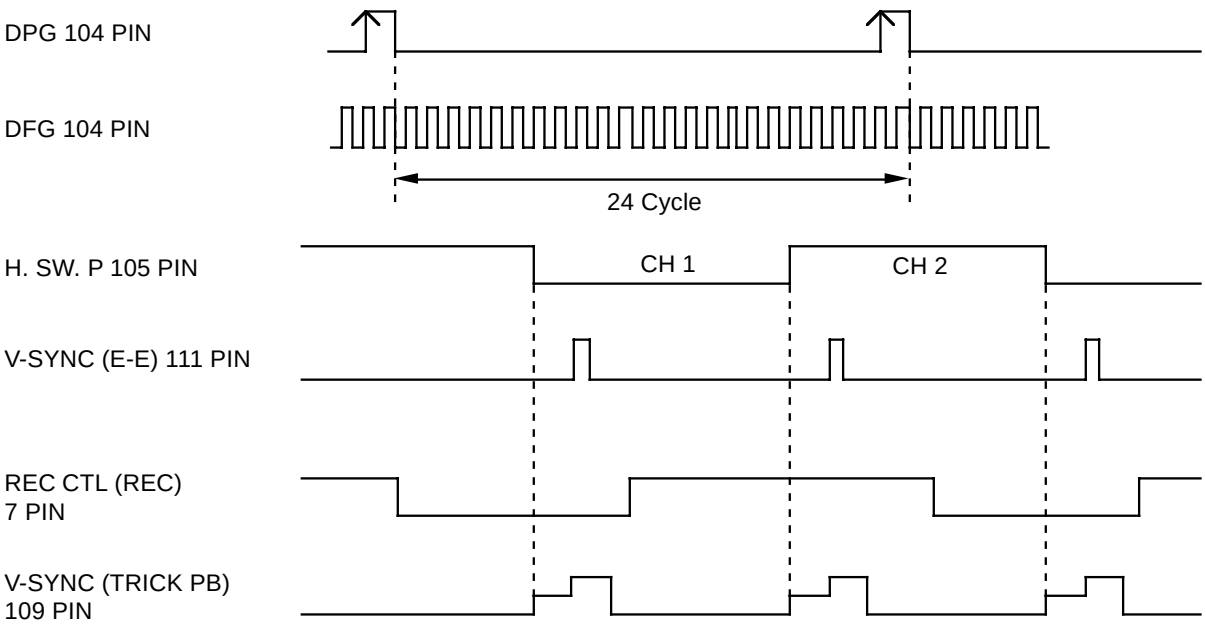


Fig. 1

SERVO TIMING CHART

VCR MT PCB IC3001 (OEC0125A)



• WAVEFORM CHANGES DEPENDED ON THE TAPE SPEED

PREPARATION FOR SERVICING

How to use the Servicing Fixture

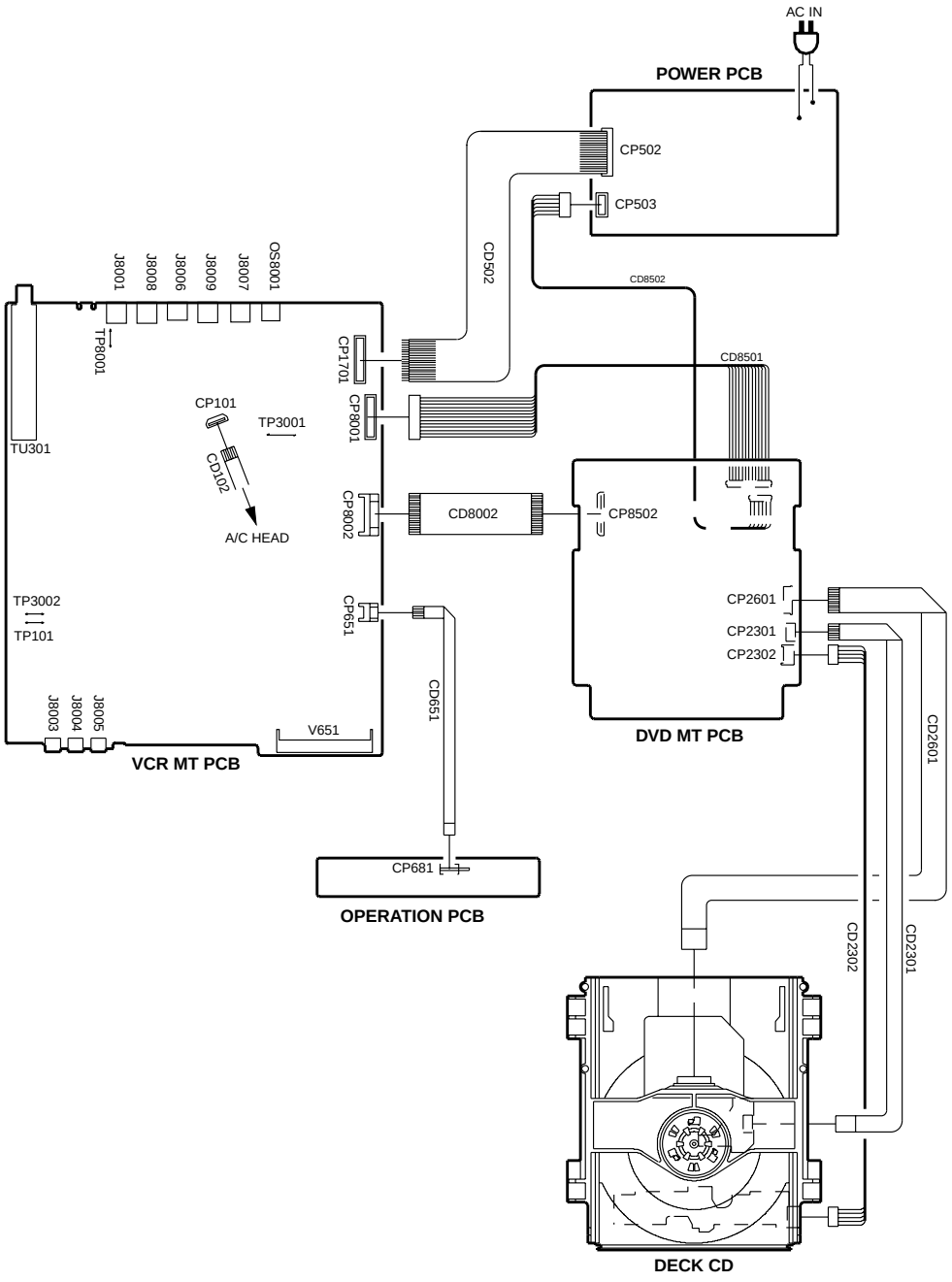
1. Short circuit between **TP3001** and **Ground** with the cable JG154.
   (The BOT, EOT, and the Reel Sensor do not work and the VCR deck can be operated without a cassette tape.)
2. In case of using a cassette tape, press the EJECT button to insert or eject a cassette tape.
   Turn on the power and re-check the cable before checking the trouble points.

When you servicing without the connection of DVD, perform the following operations before step 1.

While pressing the POWER button on the set for more than 2 seconds, press the CH DOWN button on the set simultaneously at the Power OFF. Although the DVD is connected, the DVD mode cannot be selected.

ELECTRICAL ADJUSTMENTS

2. ELECTRICAL ADJUSTMENT PARTS LOCATION GUIDE (Connector Connections)



JVC

VICTOR COMPANY OF JAPAN, LIMITED
HOME AV NETWORK BUSINESS UNIT. 12,3-chome,Moriya-cho,Kanagawa-ku,Yokohama,Kanagawa-prefecture,221-8528,Japan

Printed in Japan
0209 VP

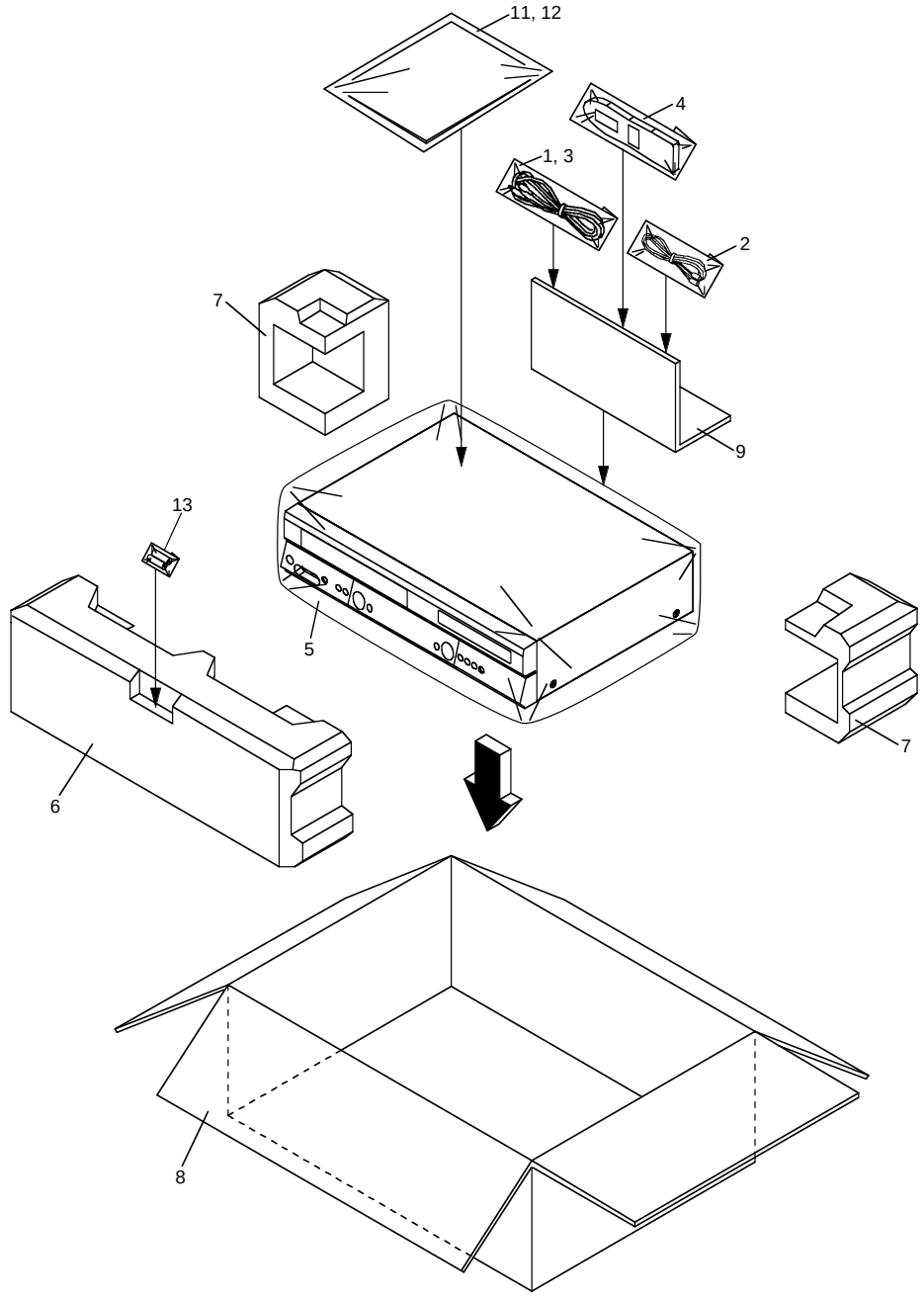
PARTS LIST

SAFETY PRECAUTION

Parts identified by the ⚠ symbol are critical for safety. Replace only with specified part numbers.

1. PACKING AND ACCESSORY ASSEMBLY <M1>

The instruction manual to be provided with this product will differ according to the destination.



# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION
**********			

PACKING AND ACCESSORY ASSEMBLY <M1>

1	PEAC0294-031	CABLE
2	X-06CPBA2003	CORD,RCA PIN
3	PEMC1012	CONVERSION PLUG
4	X-076D0FB010	TRANSMITTER
5	X-791WHA0100	GIFT SHEET
6	X-792WHA0356	PACKAGE,FRONT
7	X-792WHA0358	PACKAGE,BACK
8	X-793WCDB398	GIFT BOX
9	X-795WCA0662	PAD,DVD/VR
11	X-JB5UD100	POLYBAG,INSTRUCTION(RED CAUTION)
12	X-J2B00501A	INSTRUCTION BOOK
13	———	BATTERY,X2

2. ELECTRICAL PARTS LIST

****

VCR BOARD ASSEMBLY <03>

Note
When replacing parts in repair, use chip parts although Melf parts may be used at the time of factory shipment.

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
PCB010	X-A2B005C010	PCB ASS'Y	
R101	NRSA02J-561X	MG RESISTOR	560Ω,1/10W
R102	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
R103	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
R104	X-R002T46R8J	RESISTOR	6.8Ω,1/4W
R105	NRSA02J-102X	MG RESISTOR	1KΩ,1/10W
R106	NRSA02J-681X	MG RESISTOR	680Ω,1/10W
R107	NRSA02J-332X	MG RESISTOR	3.3KΩ,1/10W
R108	NRSA02J-223X	MG RESISTOR	22KΩ,1/10W
R110	NRSA02J-822X	MG RESISTOR	8.2KΩ,1/10W
R111	NRSA02J-822X	MG RESISTOR	8.2KΩ,1/10W
R112	NRSA02J-334X	MG RESISTOR	330KΩ,1/10W
R113	NRSA02J-221X	MG RESISTOR	220Ω,1/10W
R114	NRSA02J-183X	MG RESISTOR	18KΩ,1/10W
R115	NRSA02J-821X	MG RESISTOR	820Ω,1/10W
R116	NRSA02J-273X	MG RESISTOR	27KΩ,1/10W
R117	NRSA02J-222X	MG RESISTOR	2.2KΩ,1/10W
R119	NRSA02J-222X	MG RESISTOR	2.2KΩ,1/10W
R120	NRSA02J-221X	MG RESISTOR	220Ω,1/10W
R121	QRE141J-102Y	RESISTOR	1KΩ,1/4W
R122	NRSA02J-104X	MG RESISTOR	100KΩ,1/10W
R123	QRE141J-222Y	RESISTOR	2.2KΩ,1/4W
R124	NRSA02J-823X	MG RESISTOR	82KΩ,1/10W
R127	NRSA02J-684X	MG RESISTOR	680KΩ,1/10W
R129	QRE141J-182Y	RESISTOR	1.8KΩ,1/4W
R131	NRSA02J-152X	MG RESISTOR	1.5KΩ,1/10W
R132	NRSA02J-332X	MG RESISTOR	3.3KΩ,1/10W
R133	NRSA02J-822X	MG RESISTOR	8.2KΩ,1/10W
R136	NRSA02J-223X	MG RESISTOR	22KΩ,1/10W
R137	QRE141J-123Y	RESISTOR	12KΩ,1/4W
R138	NRSA02J-223X	MG RESISTOR	22KΩ,1/10W
R139	NRSA02J-123X	MG RESISTOR	12KΩ,1/10W
R142	NRSA02J-821X	MG RESISTOR	820Ω,1/10W
R301	NRSA02J-223X	MG RESISTOR	22KΩ,1/10W
R302	NRSA02J-102X	MG RESISTOR	1KΩ,1/10W
R304	QRE141J-103Y	RESISTOR	10KΩ,1/4W
R305	NRSA02J-102X	MG RESISTOR	1KΩ,1/10W
R651	NRSA02J-101X	MG RESISTOR	100Ω,1/4W
R653	NRSA02J-331X	MG RESISTOR	330Ω,1/10W
R657	NRSA02J-272X	MG RESISTOR	2.7KΩ,1/10W
R658	NRSA02J-182X	MG RESISTOR	1.8KΩ,1/10W
R659	NRSA02J-152X	MG RESISTOR	1.5KΩ,1/10W
R661	NRSA02J-821X	MG RESISTOR	820Ω,1/10W
R662	NRSA02J-181X	MG RESISTOR	180Ω,1/10W
R663	NRSA02J-181X	MG RESISTOR	180Ω,1/10W
R664	NRSA02J-821X	MG RESISTOR	820Ω,1/10W
R665	NRSA02J-181X	MG RESISTOR	180Ω,1/10W
R666	NRSA02J-181X	MG RESISTOR	180Ω,1/10W
R667	NRSA02J-181X	MG RESISTOR	180Ω,1/10W
R668	NRSA02J-181X	MG RESISTOR	180Ω,1/10W
R669	NRSA02J-821X	MG RESISTOR	820Ω,1/10W
R670	NRSA02J-181X	MG RESISTOR	180Ω,1/10W
R671	NRSA02J-821X	MG RESISTOR	820Ω,1/10W
R672	NRSA02J-181X	MG RESISTOR	180Ω,1/10W
R673	NRSA02J-181X	MG RESISTOR	180Ω,1/10W
R674	NRSA02J-181X	MG RESISTOR	180Ω,1/10W
R675	NRSA02J-821X	MG RESISTOR	820Ω,1/10W
R701	NRSA02J-391X	MG RESISTOR	390Ω,1/10W
R702	NRSA02J-391X	MG RESISTOR	390Ω,1/10W
R703	NRSA02J-332X	MG RESISTOR	3.3KΩ,1/10W
R704	NRSA02J-332X	MG RESISTOR	3.3KΩ,1/10W
R707	NRSA02J-473X	MG RESISTOR	47KΩ,1/10W
R708	NRSA02J-682X	MG RESISTOR	6.8KΩ,1/10W
R711	NRSA02J-473X	MG RESISTOR	47KΩ,1/10W
R712	NRSA02J-682X	MG RESISTOR	6.8KΩ,1/10W
R714	NRSA02J-273X	MG RESISTOR	27KΩ,1/10W
R716	NRSA02J-332X	MG RESISTOR	3.3KΩ,1/10W
R717	NRSA02J-225X	MG RESISTOR	2.2MΩ,1/10W
R718	NRSA02J-102X	MG RESISTOR	1KΩ,1/10W
R719	NRSA02J-391X	MG RESISTOR	390Ω,1/10W
R720	NRSA02J-682X	MG RESISTOR	6.8KΩ,1/10W
R1701	QRE141J-221Y	RESISTOR	220Ω,1/4W
R1702	QRE141J-103Y	RESISTOR	10KΩ,1/4W
R1703	X-R002T2221J	RESISTOR	220Ω,1/2W
R1706	QRE141J-392Y	RESISTOR	3.9KΩ,1/4W
R1708	NRSA02J-222X	MG RESISTOR	2.2KΩ,1/10W
R1709	NRSA02J-101X	MG RESISTOR	100Ω,1/4W
R1710	NRSA02J-330X	MG RESISTOR	33Ω,1/10W
R1711	NRSA02F-821X	MG RESISTOR	820Ω,1/10W±1%
R1713	NRSA02F-122X	MG RESISTOR	1.2KΩ,1/10W±1%
R1714	QRE141J-391Y	RESISTOR	390Ω,1/4W
R1715	QRE141J-151Y	RESISTOR	150Ω,1/4W
R1716	QRE141J-222Y	RESISTOR	2.2KΩ,1/4W
R1720	QRE141J-102Y	RESISTOR	1KΩ,1/4W
R3001	NRSA02J-562X	MG RESISTOR	5.6KΩ,1/10W
R3002	QRE141J-121Y	RESISTOR	120Ω,1/4W
R3003	NRSA02J-332X	MG RESISTOR	3.3KΩ,1/10W
R3004	NRSA02J-334X	MG RESISTOR	330KΩ,1/10W
R3006	NRSA02J-473X	MG RESISTOR	47KΩ,1/10W
R3007	NRSA02J-682X	MG RESISTOR	6.8KΩ,1/10W
R3008	NRSA02J-102X	MG RESISTOR	1KΩ,1/10W
R3009	NRSA02J-105X	MG RESISTOR	1MΩ,1/10W
R3010	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
R3011	QRE141J-473Y	RESISTOR	47KΩ,1/4W
R3012	NRSA02J-563X	MG RESISTOR	56KΩ,1/10W
R3013	NRSA02J-473X	MG RESISTOR	47KΩ,1/10W
R3014	NRSA02J-563X	MG RESISTOR	56KΩ,1/10W
R3015	QRE141J-473Y	RESISTOR	47KΩ,1/4W
R3016	NRSA02J-271X	MG RESISTOR	270Ω,1/10W
R3017	NRSA02J-561X	MG RESISTOR	560Ω,1/10W
R3019	QRE141J-473Y	RESISTOR	47KΩ,1/4W
R3020	NRSA02J-561X	MG RESISTOR	560Ω,1/10W
R3022	NRSA02J-154X	MG RESISTOR	150KΩ,1/10W
R3024	NRSA02J-153X	MG RESISTOR	15KΩ,1/10W
R3025	NRSA02J-471X	MG RESISTOR	470Ω,1/10W
R3026	NRSA02J-224X	MG RESISTOR	220KΩ,1/10W
R3027	NRSA02J-153X	MG RESISTOR	15KΩ,1/10W
R3028	NRSA02J-473X	MG RESISTOR	47KΩ,1/10W
R3029	NRSA02J-473X	MG RESISTOR	47KΩ,1/10W
R3030	NRSA02J-562X	MG RESISTOR	5.6KΩ,1/10W
R3031	NRSA02J-105X	MG RESISTOR	1MΩ,1/10W
R3032	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
R3033	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
R3034	NRSA02J-105X	MG RESISTOR	1MΩ,1/10W

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
		R3037	NRSA02J-473X	MG RESISTOR	47KΩ,1/10W
		R3038	QRE141J-472Y	RESISTOR	4.7KΩ,1/4W
		R3039	NRSA02J-223X	MG RESISTOR	22KΩ,1/10W
		R3043	NRSA02J-474X	MG RESISTOR	470KΩ,1/10W
		R3044	NRSA02J-332X	MG RESISTOR	3.3KΩ,1/10W
		R3045	NRSA02J-332X	MG RESISTOR	3.3KΩ,1/10W
		R3046	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
		R3047	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
		R3049	NRSA02J-473X	MG RESISTOR	47KΩ,1/10W
		R3050	NRSA02J-101X	MG RESISTOR	100Ω,1/4W
		R3051	NRSA02J-183X	MG RESISTOR	18KΩ,1/10W
		R3053	NRSA02J-474X	MG RESISTOR	470KΩ,1/10W
		R3055	QRE141J-223Y	RESISTOR	22KΩ,1/4W
		R3056	QRE141J-102Y	RESISTOR	1KΩ,1/4W
		R3057	NRSA02J-223X	MG RESISTOR	22KΩ,1/10W
		R3062	NRSA02J-102X	MG RESISTOR	1KΩ,1/10W
		R3063	NRSA02J-102X	MG RESISTOR	1KΩ,1/10W
		R3083	NRSA02J-333X	MG RESISTOR	33KΩ,1/10W
		R3087	NRSA02J-333X	MG RESISTOR	33KΩ,1/10W
		R8002	NRSA02J-2R2X	MG RESISTOR	2.2Ω,1/10W
		R8003	NRSA02J-680X	MG RESISTOR	68Ω,1/10W
		R8004	NRSA02J-121X	MG RESISTOR	120Ω,1/10W
		R8005	NRSA02J-100X	MG RESISTOR	10Ω,1/10W
		R8006	NRSA02J-100X	MG RESISTOR	10Ω,1/10W
		R8007	NRSA02J-100X	MG RESISTOR	10Ω,1/10W
		R8008	NRSA02J-150X	MG RESISTOR	15Ω,1/10W
		R8009	X-R002T2471J	RESISTOR	470Ω,1/2W
		R8010	NRSA02J-750X	MG RESISTOR	75Ω,1/10W
		R8011	NRSA02J-101X	MG RESISTOR	100Ω,1/10W
		R8014	NRSA02J-391X	MG RESISTOR	390Ω,1/10W
		R8015	QRE141J-391Y	RESISTOR	390Ω,1/4W
		R8016	NRSA02J-222X	MG RESISTOR	2.2KΩ,1/10W
		R8017	NRSA02J-222X	MG RESISTOR	2.2KΩ,1/10W
		R8019	NRSA02J-750X	MG RESISTOR	75Ω,1/10W
		R8020	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
		R8021	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
		R8022	QRE141J-560Y	RESISTOR	56Ω,1/4W
		R8023	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
		R8024	QRE141J-104Y	RESISTOR	100KΩ,1/4W
		R8025	NRSA02J-104X	MG RESISTOR	100KΩ,1/10W
		R8026	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
		R8027	NRSA02J-102X	MG RESISTOR	1KΩ,1/10W
		R8028	X-R002T42R2J	MG RESISTOR	2.2Ω,1/4W
		R8029	X-R002T42R2J	MG RESISTOR	2.2Ω,1/4W
		R8030	X-R002T42R2J	MG RESISTOR	2.2Ω,1/4W
		R8031	NRSA02J-102X	MG RESISTOR	1KΩ,1/10W
		R8032	NRSA02J-471X	MG RESISTOR	470Ω,1/10W
		R8033	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
		R8034	NRSA02J-823X	MG RESISTOR	82KΩ,1/10W
		R8035	NRSA02J-272X	MG RESISTOR	2.7KΩ,1/10W
		R8038	NRSA02J-272X	MG RESISTOR	2.7KΩ,1/10W
		R8040	NRSA02J-471X	MG RESISTOR	470Ω,1/10W
		R8043	NRSA02J-823X	MG RESISTOR	82KΩ,1/10W
		R8045	NRSA02J-102X	MG RESISTOR	1KΩ,1/10W
		R8046	NRSA02J-102X	MG RESISTOR	1KΩ,1/10W
		R8047	NRSA02J-102X	MG RESISTOR	1KΩ,1/10W
		R8048	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
		R8049	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
		R8050	NRSA02J-123X	MG RESISTOR	12KΩ,1/10W
		R8051	NRSA02J-123X	MG RESISTOR	12KΩ,1/10W
		R8052	NRSA02J-822X	MG RESISTOR	8.2KΩ,1/10W
		R8053	NRSA02J-272X	MG RESISTOR	2.7KΩ,1/10W
		R8054	NRSA02J-822X	MG RESISTOR	8.2KΩ,1/10W
		R8055	NRSA02J-823X	MG RESISTOR	82KΩ,1/10W
		R8056	NRSA02J-272X	MG RESISTOR	2.7KΩ,1/10W
		R8057	QRE141J-121Y	RESISTOR	120Ω,1/4W
		R8058	QRE141J-121Y	RESISTOR	120Ω,1/4W
		R8059	QRE141J-823Y	RESISTOR	82KΩ,1/4W
		R8060	NRSA02J-823X	MG RESISTOR	82KΩ,1/10W
		R8061	NRSA02J-561X	MG RESISTOR	560Ω,1/10W
		R8065	NRSA02J-471X	MG RESISTOR	470Ω,1/10W
		R8067	NRSA02J-471X	MG RESISTOR	470Ω,1/10W
		R8068	NRSA02J-474X	MG RESISTOR	470KΩ,1/10W
		R8069	NRSA02J-472X	MG RESISTOR	4.7KΩ,1/10W
		R8072	NRSA02J-470X	MG RESISTOR	47Ω,1/10W
		R8073	QRE141J-470Y	RESISTOR	47Ω,1/4W
		R8074	NRSA02J-561X	MG RESISTOR	560Ω,1/10W
		R8075	NRSA02J-823X	MG RESISTOR	82KΩ,1/10W
		R8076	NRSA02J-472X	MG RESISTOR	4.7KΩ,1/10W
		R8082	NRSA02J-332X	MG RESISTOR	3.3KΩ,1/10W
		C101	X-P235W1223J	CAPACITOR	0.022μF,100V MKT
		C103	X-E524U0220D	E CAPACITOR	22μF,6.3V
		C104	QETN0JM-227Z	E CAPACITOR	220μF,6.3V
		C105	X-E524U0220D	E CAPACITOR	22μF,6.3V
		C106	NCB21HK-103X	CAPACITOR	0.01μF,50V
		C107	NCB21HK-153X	CAPACITOR	0.015μF,50V
		C108	NCB21HK-103X	CAPACITOR	0.01μF,50V
		C109	NCB21EK-104X	CAPACITOR	0.1μF,25V
		C110	QETN1CM-476Z	E CAPACITOR	47μF,16V
		C112	QETN0JM-227Z	E CAPACITOR	220μF,6.3V
		C114	NCB21EK-104X	CAPACITOR	0.1μF,25V
		C115	QETN1EM-336Z	E CAPACITOR	33μF,25V
		C116	NCF21HZ-104X	CAPACITOR	0.1μF,50V
		C118	NCB21HK-103X	CAPACITOR	0.01μF,50V
		C119	QETN1HM-106Z	E CAPACITOR	10μF,50V
		C120	QEKJ1HM-105Z	E CAPACITOR	1μF,50V
		C121	NCB21HK-272X	CAPACITOR	0.0027μF,50V
		C122	NCB21HK-122X	CAPACITOR	0.0012μF,50V
		C123	X-E02LU54R7M	E CAPACITOR	4.7μF,50V
		C124	QETN1HM-105Z	E CAPACITOR	1μF,50V
		C125	X-CS0KB04N2K	CAPACITOR	390pF,50V
		C126	NCB21EK-104X	CAPACITOR	0.1μF,25V
		C127	X-CS0RCH4E2J	CAPACITOR	150pF,50V
		C128	NDC21HJ-390X	CAPACITOR	39pF,50V
		C130	NCB21EK-104X	CAPACITOR	0.1μF,25V
		C131	QETN0JM-107Z	E CAPACITOR	100μF,6.3V
		C132	QETN1HM-105Z	E CAPACITOR	1μF,50V
		C133	QETN1HM-105Z	E CAPACITOR	1μF,50V
		C134	QETN1HM-105Z	E CAPACITOR	1μF,50V
		C135	X-E02LU5R22M	E CAPACITOR	0.22μF,50V
		C136	QETN1VM-226Z	E CAPACITOR	22μF,35V
		C137	QETN1HM-105Z	E CAPACITOR	1μF,50V
		C138	QETN1HM-105Z	E CAPACITOR	1μF,50V
		C139	NCF21HZ-104X	CAPACITOR	0.1μF,50V
		C140	X-E00NU24R7M	E CAPACITOR	4.7μF,16V
		C141	NCB21HK-103X	CAPACITOR	0.01μF,50V
		C142	QETN1CM-476Z	E CAPACITOR	47μF,16V
		C143	NCF21HZ-104X	CAPACITOR	0.1μF,50V
		C144	NCB21HK-103X	CAPACITOR	0.01μF,50V
		C145	NCB21HK-223X	CAPACITOR	0.022μF,50V
		C146	QEKJ1HM-105Z	E CAPACITOR	1μF,50V
		C147	NCB21HK-223X	CAPACITOR	0.022μF,50V

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
		C148	QEKJ1HM-105Z	E CAPACITOR	1µF,50V
		C151	QEKJ1HM-105Z	E CAPACITOR	1µF,50V
		C152	QETN1CM-476Z	E CAPACITOR	47µF,16V
		C154	NCB21EK-104X	CAPACITOR	0.1µF,25V
		C155	NCB21EK-104X	CAPACITOR	0.1µF,25V
		C156	NCF21HZ-104X	CAPACITOR	0.1µF,50V
		C158	NCB21EK-104X	CAPACITOR	0.1µF,25V
		C162	NCB21EK-104X	CAPACITOR	0.1µF,25V
		C163	X-E524U0470D	E CAPACITOR	47µF,6.3V
		C165	NCF21HZ-473X	CAPACITOR	0.047µF,50V
		C166	NCB21HK-683X	CAPACITOR	0.068µF,50V
		C169	NCF21HZ-473X	CAPACITOR	0.047µF,50V
		C172	X-CS0KCH4H1J	CAPACITOR	22pF,50V
		C303	NCF21HZ-104X	CAPACITOR	0.1µF,50V
		C304	NCF21HZ-103X	CAPACITOR	0.01µF,50V
		C308	QETN0JM-227Z	E CAPACITOR	220µF,6.3V
		C309	QETN0JM-227Z	E CAPACITOR	220µF,6.3V
		C313	QEKJ1CM-106Z	E CAPACITOR	10µF,16V
		C315	QEKJ1CM-106Z	E CAPACITOR	10µF,16V
		C316	NCF21HZ-104X	CAPACITOR	0.1µF,50V
		C318	QEKJ1CM-106Z	E CAPACITOR	10µF,16V
		C652	QETN0JM-107Z	E CAPACITOR	100µF,6.3V
		C701	NCB21HK-223X	CAPACITOR	0.022µF,50V
		C702	X-E02LU53R3M	E CAPACITOR	3.3µF,50V
		C703	X-E02LU54R7M	E CAPACITOR	4.7µF,50V
		C704	X-E02LU54R7M	E CAPACITOR	4.7µF,50V
		C705	X-E02LU54R7M	E CAPACITOR	4.7µF,50V
		C706	X-E02LU54R7M	E CAPACITOR	4.7µF,50V
		C707	NCB21EK-104X	CAPACITOR	0.1µF,25V
		C708	QETN1HM-106Z	E CAPACITOR	10µF,50V
		C709	QETN1HM-106Z	E CAPACITOR	10µF,50V
		C711	QETN1HM-106Z	E CAPACITOR	10µF,50V
		C713	QEKJ1CM-106Z	E CAPACITOR	10µF,16V
		C714	QETN1HM-106Z	E CAPACITOR	10µF,50V
		C715	NDC21HJ-681X	CAPACITOR	680pF,50V
		C716	X-E524U5010D	E CAPACITOR	1µF,50V
		C719	QETN1HM-106Z	E CAPACITOR	10µF,50V
		C720	X-E524U0330D	E CAPACITOR	33µF,6.3V
		C721	NDC21HJ-681X	CAPACITOR	680pF,50V
		C722	NCB21EK-104X	CAPACITOR	0.1µF,25V
		C723	NCF21HZ-103X	CAPACITOR	0.01µF,50V
		C724	NCF21HZ-103X	CAPACITOR	0.01µF,50V
		C725	NCB21EK-104X	CAPACITOR	0.1µF,25V
		C726	NCB21HK-153X	CAPACITOR	0.015µF,50V
		C727	QETN1HM-106Z	E CAPACITOR	10µF,50V
		C728	X-E524U2100D	E CAPACITOR	10µF,16V
		C729	NCB21HK-103X	CAPACITOR	0.01µF,50V
		C730	NCB21HK-153X	CAPACITOR	0.015µF,50V
		C731	X-E02LU5R22M	E CAPACITOR	0.22µF,50V
		C732	NCF21HZ-103X	CAPACITOR	0.01µF,50V
		C734	NCB21EK-104X	CAPACITOR	0.1µF,25V
		C735	X-E02LU54R7M	E CAPACITOR	4.7µF,50V
		C736	NCB21HK-102X	CAPACITOR	0.001µF,50V
		C737	QEKJ1HM-475Z	E CAPACITOR	4.7µF,50V
		C738	NCF21HZ-103X	CAPACITOR	0.01µF,50V
		C739	QEKJ0JM-476Z	E CAPACITOR	47µF,6.3V
		C740	QEKJ0JM-336Z	E CAPACITOR	33µF,6.3V
		C741	QETN1HM-106Z	E CAPACITOR	10µF,50V
		C742	QETN1HM-106Z	E CAPACITOR	10µF,50V
		C743	X-E02LU5R22M	E CAPACITOR	0.22µF,50V
		C744	NCF21HZ-104X	CAPACITOR	0.1µF,50V
		C746	NCF21HZ-104X	CAPACITOR	0.1µF,50V
		C747	QETN1HM-106Z	E CAPACITOR	10µF,50V
		C748	NCF21HZ-104X	CAPACITOR	0.1µF,50V
		C749	NCF21HZ-104X	CAPACITOR	0.1µF,50V
		C750	X-E02LU52R2M	E CAPACITOR	2.2µF,50V
		C751	NCF21HZ-104X	CAPACITOR	0.1µF,50V
		C752	QETN1VM-226Z	E CAPACITOR	22µF,35V
		C754	QETN1CM-476Z	E CAPACITOR	47µF,16V
		C755	NCB21HK-223X	CAPACITOR	0.022µF,50V
		C756	X-E50HU5100M	E CAPACITOR	10µF,50V
		C757	QETN1HM-106Z	E CAPACITOR	10µF,50V
		C758	QETN1VM-226Z	E CAPACITOR	22µF,35V
		C759	QETN1VM-226Z	E CAPACITOR	22µF,35V
		C760	QEKJ1HM-105Z	E CAPACITOR	1µF,50V
		C761	X-E524U0470D	E CAPACITOR	47µF,6.3V
		C762	NDC21HJ-681X	CAPACITOR	680pF,50V
		C763	NDC21HJ-681X	CAPACITOR	680pF,50V
		C1702	QETN1HM-105Z	E CAPACITOR	1µF,50V
		C1703	QETN1HM-106Z	E CAPACITOR	10µF,50V
		C1706	QETN1VM-226Z	E CAPACITOR	22µF,35V
		C1708	X-E02LT0102M	E CAPACITOR	1000µF,6.3V
		C1709	QETN1HM-106Z	E CAPACITOR	10µF,50V
		C3001	X-CS0RB0216K	CAPACITOR	1µF,16V
		C3003	QEKJ1CM-106Z	E CAPACITOR	10µF,16V
		C3004	NCB21HK-223X	CAPACITOR	0.022µF,50V
		C3005	NCB21HK-102X	CAPACITOR	0.001µF,50V
		C3006	NCB21HK-102X	CAPACITOR	0.001µF,50V
		C3007	NCB21EK-104X	CAPACITOR	0.1µF,25V
		C3008	NCB21HK-472X	CAPACITOR	0.0047µF,50V
		C3009	NCB21EK-104X	CAPACITOR	0.1µF,25V
		C3010	NCB21HK-102X	CAPACITOR	0.001µF,50V
		C3013	QEKJ0JM-226Z	E CAPACITOR	22µF,6.3V
		C3014	NCF21HZ-104X	CAPACITOR	0.1µF,50V
		C3015	NDC21HJ-821X	CAPACITOR	820pF,50V
		C3016	QEKJ0JM-476Z	E CAPACITOR	47µF,6.3V
		C3017	X-CS0KCH4B1J	CAPACITOR	12pF,50V
		C3018	X-CS0RCH4E2J	CAPACITOR	150pF,50V
		C3019	NCB21EK-104X	CAPACITOR	0.1µF,25V
		C3020	NCB21HK-223X	CAPACITOR	0.022µF,50V
		C3021	QEKJ1CM-106Z	E CAPACITOR	10µF,16V
		C3022	NDC21HJ-471X	CAPACITOR	470pF,50V
		C3023	QETN0JM-227Z	E CAPACITOR	220µF,6.3V
		C3024	X-CS0KCH4G1J	CAPACITOR	18pF,50V
		C3025	X-CS0KCH4G1J	CAPACITOR	18pF,50V
		C3027	NCF21HZ-104X	CAPACITOR	0.1µF,50V
		C3029	QEKJ0JM-476Z	E CAPACITOR	47µF,6.3V
		C3030	NCF21HZ-104X	CAPACITOR	0.1µF,50V
		C3031	NCB21HK-152X	CAPACITOR	0.0015µF,50V
		C3032	QEKJ1HM-225Z	E CAPACITOR	2.2µF,50V
		C3033	QETN1VM-337Z	E CAPACITOR	330µF,35V
		C3034	NCF21EZ-105X	CAPACITOR	1µF,25V
		C3036	NCF21HZ-104X	CAPACITOR	0.1µF,50V
		C3038	NCF21EZ-105X	CAPACITOR	1µF,25V
		C3039	X-CS0KCH4B1J	CAPACITOR	12pF,50V
		C3041	X-CQGTB04E3K	CAPACITOR	0.0015µF,50V
		C3044	X-CS0KCH4B1J	CAPACITOR	12pF,50V
		C3045	QEKJ1HM-474Z	E CAPACITOR	0.47µF,50V
		C3046	X-CS0KCH4E1J	CAPACITOR	15pF,50V
		C3047	X-CS0KCH4E1J	CAPACITOR	15pF,50V
		C3049	NDC21HJ-101X	CAPACITOR	100pF,50V
		C3050	NCB21HK-103X	CAPACITOR	0.01µF,50V

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
		C3052	QEKJ0JM-226Z	E CAPACITOR	22µF,6.3V
		C3053	NCB21EK-104X	CAPACITOR	0.1µF,25V
		C3061	NCF21HZ-104X	CAPACITOR	0.1µF,50V
		C3065	NCF21HZ-104X	CAPACITOR	0.1µF,50V
		C8008	NDC21HJ-101X	CAPACITOR	100pF,50V
		C8009	QETN0JM-477Z	E CAPACITOR	470µF,6.3V
		C8010	NCB21EK-104X	CAPACITOR	0.1µF,25V
		C8011	NDC21HJ-101X	CAPACITOR	100pF,50V
		C8012	NCB21EK-104X	CAPACITOR	0.1µF,25V
		C8013	QETN1HM-106Z	E CAPACITOR	10µF,50V
		C8015	QETN0JM-477Z	E CAPACITOR	470µF,6.3V
		C8019	QEKJ1CM-106Z	E CAPACITOR	10µF,16V
		C8020	QEKJ1CM-106Z	E CAPACITOR	10µF,16V
		C8021	QEKJ1CM-106Z	E CAPACITOR	10µF,16V
		C8022	X-E00NU52R2M	E CAPACITOR	2.2µF,50V
		C8023	X-E00NU52R2M	E CAPACITOR	2.2µF,50V
		C8024	QEKJ1CM-106Z	E CAPACITOR	10µF,16V
		C8025	NDC21HJ-821X	CAPACITOR	820pF,50V
		C8026	NCF21HZ-104X	CAPACITOR	0.1µF,50V
		C8027	QETN1CM-227Z	E CAPACITOR	220µF,16V
		C8028	QEKJ1CM-106Z	E CAPACITOR	10µF,16V
		C8029	QEKJ1CM-106Z	E CAPACITOR	10µF,16V
		C8030	QEKJ1CM-106Z	E CAPACITOR	10µF,16V
		C8031	QEKJ1HM-475Z	E CAPACITOR	4.7µF,50V
		C8032	X-E00NU24R7M	E CAPACITOR	4.7µF,16V
		C8033	QEKJ1CM-106Z	E CAPACITOR	10µF,16V
		C8037	QETN0JM-477Z	E CAPACITOR	470µF,6.3V
		C8038	QETN0JM-477Z	E CAPACITOR	470µF,6.3V
		C8039	QETN0JM-477Z	E CAPACITOR	470µF,6.3V
		C8043	QEKJ1CM-106Z	E CAPACITOR	10µF,16V
		C8045	X-E02LU2101M	E CAPACITOR	100µF,16V
		C8048	QETN0JM-477Z	E CAPACITOR	470µF,6.3V
		C8049	NCF21HZ-104X	CAPACITOR	0.1µF,50V
		C8052	QEKJ1HM-475Z	E CAPACITOR	4.7µF,50V
		C8053	QEKJ1CM-226Z	E CAPACITOR	22µF,16V
		C8054	NCF21HZ-104X	CAPACITOR	0.1µF,50V
		C8064	NDC21HJ-821X	CAPACITOR	820pF,50V
		C8065	QEKJ1AM-336Z	E CAPACITOR	33µF,10V
		C8070	NCB21HK-152X	CAPACITOR	0.0015µF,50V
		C8077	NCB21HK-152X	CAPACITOR	0.0015µF,50V
		C8079	NDC21HJ-101X	CAPACITOR	100pF,50V
		C8081	NDC21HJ-101X	CAPACITOR	100pF,50V
		C8090	NCF21HZ-104X	CAPACITOR	0.1µF,50V
		C8094	QEKJ0JM-476Z	E CAPACITOR	47µF,6.3V
		C8095	NCB21HK-223X	CAPACITOR	0.022µF,50V
		C8096	NCF21HZ-104X	CAPACITOR	0.1µF,50V
		C8097	QEKJ0JM-476Z	E CAPACITOR	47µF,6.3V
		C8098	NCF21HZ-104X	CAPACITOR	0.1µF,50V
		C8099	NDC21HJ-471X	CAPACITOR	470pF,50V
		C8100	NDC21HJ-471X	CAPACITOR	470pF,50V
		C8102	QEKJ1HM-225Z	E CAPACITOR	2.2µF,50V
		C8103	QETN1CM-477Z	E CAPACITOR	470µF,16V
		C8104	QEKJ1CM-226Z	E CAPACITOR	22µF,16V
		C8105	QEKJ1CM-226Z	E CAPACITOR	22µF,16V
		C8106	QEKJ1HM-225Z	E CAPACITOR	2.2µF,50V
		D651	X-0021E5Q210	LED	LTL-1CHGE-002A
		D656	X-D2WXN40050	DIODE	1N4005-EIC
		D701	1SS133-T2	DIODE	
		D1701	MTZJ13B-T2	ZENER	
		D1702	1SS133-T2	DIODE	
		D1706	MTZJ10B-T2	ZENER	

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
		D1709	X-D2WXN40050	DIODE	1N4005-EIC
		D3001	X-0010100320	INFRARED LED	LNA2702L010R
		D3007	1SS133-T2	DIODE	
		D3009	1SS133-T2	DIODE	
		D8002	MTZJ6.8B-T2	ZENER	
		D8004	1SS133-T2	DIODE	
		D8010	1SS133-T2	DIODE	
		D8011	MTZJ10B-T2	ZENER	
		D8012	MTZJ10B-T2	ZENER	
		D8013	MTZJ10B-T2	ZENER	
		D8014	MTZJ10B-T2	ZENER	
		D8015	MTZJ10B-T2	ZENER	
		IC101	X-I03F3205M0	IC	LA71205M-MPB
		IC701	AN3663FBP	IC	
		IC3001	X-I54F50125A	IC	OEC0125A
		IC3003	X-I9UF032310	IC	PST3231NR
		IC3099	S-24C02BDP	IC	
		IC8001	X-I5CF040530	IC	CD4053BNSR
		IC8003	NJM4580M	IC	
		IC8004	NJM4580M	IC	
		IC8005	X-I0QF02533V	IC	NJM2533V(TE2)
		Q101	X-TCATC31980	TRANSISTOR	KTC3198-AT(Y,GR)
		Q102	X-TCATC31980	TRANSISTOR	KTC3198-AT(Y,GR)
		Q103	X-TPAAC05002	TRANSISTOR	KRA103SRTK
		Q104	X-TCAT032034	TRANSISTOR	KTC3203_Y-AT
		Q105	X-TAATA12660	TRANSISTOR	KTA1266-AT(Y,GR)
		Q106	2SA1037AK/RS/-X	TRANSISTOR	
		Q107	2SA1037AK/RS/-X	TRANSISTOR	
		Q109	2SC2412K/RS/-X	TRANSISTOR	
		Q301	2SC2412K/RS/-X	TRANSISTOR	
		Q303	KRC103S-X	TRANSISTOR	
		Q651	2SA1037AK/RS/-X	TRANSISTOR	
		Q652	KRC103S-X	TRANSISTOR	
		Q653	KRC103S-X	TRANSISTOR	
		Q654	2SA1037AK/RS/-X	TRANSISTOR	
		Q655	KRC103S-X	TRANSISTOR	
		Q656	KRC103S-X	TRANSISTOR	
		Q657	KRC103S-X	TRANSISTOR	
		Q658	KRC103S-X	TRANSISTOR	
		Q659	2SA1037AK/RS/-X	TRANSISTOR	
		Q660	KRC103S-X	TRANSISTOR	
		Q661	2SA1037AK/RS/-X	TRANSISTOR	
		Q662	KRC103S-X	TRANSISTOR	
		Q663	KRC103S-X	TRANSISTOR	
		Q664	KRC103S-X	TRANSISTOR	
		Q665	2SA1037AK/RS/-X	TRANSISTOR	
		Q666	X-TPAAC05002	TRANSISTOR	KRA103SRTK
	⚠	Q1701	X-TCAT032034	TRANSISTOR	KTC3203_Y-AT
	⚠	Q1702	X-TCAT03209Y	TRANSISTOR	KTC3209_Y-AT
	⚠	Q1703	X-TCAT03209Y	TRANSISTOR	KTC3209_Y-AT
		Q1704	KRC103S-X	TRANSISTOR	
	⚠	Q1705	X-TCAT032034	TRANSISTOR	KTC3203_Y-AT
	⚠	Q1706	X-TAAT01241Y	TRANSISTOR	KTA1241_Y-AT
		Q1707	2SC2412K/RS/-X	TRANSISTOR	
		Q1708	2SC2412K/RS/-X	TRANSISTOR	
	⚠	Q1713	X-TAAT012714	TRANSISTOR	KTA1271_Y-AT
		Q1714	KRC103S-X	TRANSISTOR	
		Q3001	X-0002700690	PHOTO COUPLER	RPI-303
		Q3002	X-0002700690	PHOTO COUPLER	RPI-303
		Q3004	X-0002700680	PHOTO TRANSISTOR	RPI-352C40N
		Q3005	X-0002700680	PHOTO TRANSISTOR	RPI-352C40N

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
		Q3006	X-0000M00390	PHOTO TRANSISTOR	ST-304L
		Q3008	X-0000M00390	PHOTO TRANSISTOR	ST-304L
		Q8001	2SA1037AK/RS/-X	TRANSISTOR	
		Q8002	2SC2412K/RS/-X	TRANSISTOR	
		Q8003	KRC103S-X	TRANSISTOR	
		Q8004	X-TAATA12660	TRANSISTOR	KTA1266-AT(Y,GR)
		Q8005	2SC2412K/RS/-X	TRANSISTOR	
		Q8006	2SC2412K/RS/-X	TRANSISTOR	
		Q8007	X-TPAAC05002	TRANSISTOR	KRA103SRTK
		Q8008	X-TNYJC05001	TRANSISTOR	DTC124EKAT146
		Q8008	KRC103S-X	TRANSISTOR	
		Q8010	2SC2412K/RS/-X	TRANSISTOR	
		Q8011	X-TNAAD05001	TRANSISTOR	KRC104SRTK
		Q8012	KRC103S-X	TRANSISTOR	
		Q8013	X-TPAAA05001	TRANSISTOR	KRA101SRTK
		Q8014	2SC2412K/RS/-X	TRANSISTOR	
		Q8015	2SC2412K/RS/-X	TRANSISTOR	
		B8001	X-024HT03564	CORE,BEADS	
		L101	X-031626009R	COIL,BIAS OSC	
		L102	QQL29BJ-101Z	COIL	100µH
		L104	QQL29BJ-220Z	COIL	22µH
		L105	QQL29BJ-220Z	COIL	22µH
		L106	QQL29BJ-220Z	COIL	22µH
		L107	QQL29BJ-220Z	COIL	22µH
		L301	X-021673101K	COIL	100µH
		L302	QQL29BJ-220Z	COIL	22µH
		L701	QQL29BJ-220Z	COIL	22µH
		L702	QQL29BJ-220Z	COIL	22µH
		L703	QQL071J-101Y	COIL	100µH
		L704	QQL29BJ-220Z	COIL	22µH
		L3003	X-021LA6120K	COIL	12µH
		L8001	X-021LA6R27M	COIL	0.27µH
		L8002	QQL071J-101Y	COIL	100µH
		L8003	X-021LA6R27M	COIL	0.27µH
		L8004	X-0216A6470K	COIL	47µH
		L8007	QQL071J-101Y	COIL	100µH
		L8013	X-0216A6220K	COIL	22µH
		J8001	X-060J411018	RCA JACK	
		J8003	X-060J401087	RCA JACK	
		J8004	X-060J401087	RCA JACK	
		J8005	X-060J421025	RCA JACK	
		J8006	X-063D700005	JACK	
		J8007	X-060J401082	RCA JACK	
		J8008	X-060J411024	RCA JACK	
		J8009	X-060J411020	RCA JACK	
		SW301	X-0510S21041	SWITCH SLIDE	
		SW651	QSW0456-001Z	TACT SWITCH,VCR EJECT	
		SW652	QSW0456-001Z	TACT SWITCH,POWER	
		SW653	QSW0456-001Z	TACT SWITCH,VCR/DVD	
		SW654	QSW0456-001Z	TACT SWITCH,CH UP	
		SW655	QSW0456-001Z	TACT SWITCH,CH DOWN	
		SW3001	X-0508S11001	LEAF SWITCH	
		CP101	X-0697290620	CONNECTOR PCB SIDE	
		CP102	X-069J760029	CONNECTOR PCB SIDE	
		CP103	X-0697120320	CONNECTOR PCB SIDE	
		CP651	X-069J750019	CONNECTOR PCB SIDE	
		CP1701	X-069R2E0589	CONNECTOR PCB SIDE	
		CP3001	X-06972C0010	CONNECTOR PCB SIDE	
		CP8001	X-069S2D0629	CONNECTOR PCB SIDE	
		CP8002	X-069J7I0019	CONNECTOR PCB SIDE	
		X101	X-100DT3R528	CRYSTAL	HC-49/U
		X101	NAX0102-001X	CRYSTAL	3.57954MHz
		X3001	QAX0528-001	CRYSTAL	10MHz
		X3002	QAX0236-001	CRYSTAL	32.768KHz
		X3003	QAX0698-001	CRYSTAL	14.31818MHz
	⚠	TU301	X-0162K00027	RF UNIT	
		OS651	X-077Q037001	REMOTE RECEIVER	
		OS8001	GP1FA550TZ	OPTICAL DEVICE	GP1FA550TZ
		V651	X-0040F94005	LED DISPLAY	ELF-4M6SDRSOWB

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DVD BOARD ASSEMBLY <50>

Note
When replacing parts in repair, use chip parts although Melf parts may be used at the time of factory shipment.

		PCB130	X-A2B005C130	PCB ASS'Y
		R1001	NRSA02J-103X	MG RESISTOR 10KΩ,1/10W
		R1002	NRSA02J-103X	MG RESISTOR 10KΩ,1/10W
		R1003	NRSA63J-104X	MG RESISTOR 100KΩ,1/16W
		R1004	NRSA02J-472X	MG RESISTOR 4.7KΩ,1/10W
		R1005	NRSA02J-472X	MG RESISTOR 4.7KΩ,1/10W
		R1008	NRSA63J-472X	MG RESISTOR 4.7KΩ,1/16W
		R1009	NRSA02J-472X	MG RESISTOR 4.7KΩ,1/10W
		R1010	NRSA02J-472X	MG RESISTOR 4.7KΩ,1/10W
		R1011	NRSA02J-472X	MG RESISTOR 4.7KΩ,1/10W
		R1012	NRSA02J-472X	MG RESISTOR 4.7KΩ,1/10W
		R1014	NRSA02J-103X	MG RESISTOR 10KΩ,1/10W
		R1015	NRSA02J-103X	MG RESISTOR 10KΩ,1/10W
		R1016	NRSA02J-103X	MG RESISTOR 10KΩ,1/10W
		R1017	NRSA63J-330X	MG RESISTOR 33Ω,1/16W
		R1018	NRSA02J-103X	MG RESISTOR 10KΩ,1/10W
		R1020	NRSA02J-103X	MG RESISTOR 10KΩ,1/10W
		R1021	NRSA02J-472X	MG RESISTOR 4.7KΩ,1/10W
		R1023	NRSA02J-472X	MG RESISTOR 4.7KΩ,1/10W
		R1024	NRSA02J-472X	MG RESISTOR 4.7KΩ,1/10W
		R1026	NRSA02J-473X	MG RESISTOR 47KΩ,1/10W
		R1027	NRSA02J-473X	MG RESISTOR 47KΩ,1/10W
		R1030	NRSA02J-472X	MG RESISTOR 4.7KΩ,1/10W
		R1031	NRSA02J-103X	MG RESISTOR 10KΩ,1/10W
		R1032	NRSA02J-103X	MG RESISTOR 10KΩ,1/10W
		R1034	NRSA02J-103X	MG RESISTOR 10KΩ,1/10W
		R1035	NRSA02J-472X	MG RESISTOR 4.7KΩ,1/10W
		R1036	NRSA02J-472X	MG RESISTOR 4.7KΩ,1/10W
		R1037	NRSA02J-472X	MG RESISTOR 4.7KΩ,1/10W
		R1038	NRSA02J-103X	MG RESISTOR 10KΩ,1/10W
		R1039	NRSA02J-103X	MG RESISTOR 10KΩ,1/10W
		R1040	NRSA02J-103X	MG RESISTOR 10KΩ,1/10W
		R1041	NRSA02J-472X	MG RESISTOR 4.7KΩ,1/10W
		R1046	NRSA02J-472X	MG RESISTOR 4.7KΩ,1/10W
		R1047	NRSA02J-472X	MG RESISTOR 4.7KΩ,1/10W
		R1048	NRSA02J-103X	MG RESISTOR 10KΩ,1/10W
		R1049	NRSA02J-472X	MG RESISTOR 4.7KΩ,1/10W
		R1050	NRSA02J-472X	MG RESISTOR 4.7KΩ,1/10W
		R1051	NRSA02J-472X	MG RESISTOR 4.7KΩ,1/10W
		R1053	NRSA02J-472X	MG RESISTOR 4.7KΩ,1/10W
		R1054	NRSA02J-472X	MG RESISTOR 4.7KΩ,1/10W
		R1055	NRSA02J-472X	MG RESISTOR 4.7KΩ,1/10W

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
	R1066	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
	R1067	NRSA02J-472X	MG RESISTOR	4.7KΩ,1/10W
	R1068	NRSA02J-472X	MG RESISTOR	4.7KΩ,1/10W
	R1069	NRSA63J-330X	MG RESISTOR	33Ω,1/16W
	R1070	NRSA63J-330X	MG RESISTOR	33Ω,1/16W
	R1071	NRSA63J-330X	MG RESISTOR	33Ω,1/16W
	R1072	NRSA63J-330X	MG RESISTOR	33Ω,1/16W
	R1073	NRSA63J-330X	MG RESISTOR	33Ω,1/16W
	R1074	NRSA02J-472X	MG RESISTOR	4.7KΩ,1/10W
	R2001	NRSA63J-104X	MG RESISTOR	100KΩ,1/16W
	R2002	NRSA63J-333X	MG RESISTOR	33KΩ,1/16W
	R2006	NRSA02J-102X	MG RESISTOR	1KΩ,1/10W
	R2007	NRSA02J-102X	MG RESISTOR	1KΩ,1/10W
	R2008	NRSA02J-102X	MG RESISTOR	1KΩ,1/10W
	R2009	NRSA02J-102X	MG RESISTOR	1KΩ,1/10W
	R2010	NRSA02J-102X	MG RESISTOR	1KΩ,1/10W
	R2011	NRSA02J-102X	MG RESISTOR	1KΩ,1/10W
	R2012	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
	R2013	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
	R2014	NRSA63J-153X	MG RESISTOR	15KΩ,1/16W
	R2016	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
	R2017	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
	R2020	NRSA02J-221X	MG RESISTOR	220Ω,1/10W
	R2021	NRSA02J-221X	MG RESISTOR	220Ω,1/10W
	R2022	NRSA02J-221X	MG RESISTOR	220Ω,1/10W
	R2023	NRSA02J-221X	MG RESISTOR	220Ω,1/10W
	R2024	NRSA02J-221X	MG RESISTOR	220Ω,1/10W
	R2025	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
	R2026	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
	R2027	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
	R2028	NRSA63J-220X	MG RESISTOR	22Ω,1/16W
	R2029	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
	R2030	NRSA63J-562X	MG RESISTOR	5.6KΩ,1/16W
	R2031	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
	R2033	NRSA02J-221X	MG RESISTOR	220Ω,1/10W
	R2035	NRSA63J-273X	MG RESISTOR	27KΩ,1/16W
	R2036	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
	R2037	NRSA63J-220X	MG RESISTOR	22Ω,1/16W
	R2038	NRSA63J-103X	MG RESISTOR	10KΩ,1/16W
	R2039	NRSA63J-103X	MG RESISTOR	10KΩ,1/16W
	R2041	NRSA63J-105X	MG RESISTOR	1MΩ, 1/16W
	R2042	NRSA63J-122X	MG RESISTOR	1.2KΩ,1/16W
	R2043	NRSA63J-182X	MG RESISTOR	1.8KΩ,1/16W
	R2044	NRSA02J-223X	MG RESISTOR	22KΩ,1/10W
	R2045	NRSA02J-223X	MG RESISTOR	22KΩ,1/10W
	R2046	NRSA63J-151X	MG RESISTOR	150Ω,1/16W
	R2052	NRSA63J-122X	MG RESISTOR	1.2KΩ,1/16W
	R2054	NRSA63J-681X	MG RESISTOR	680Ω,1/16W
	R2064	NRSA02J-221X	MG RESISTOR	220Ω,1/10W
	R2301	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
	R2302	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
	R2303	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
	R2304	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
	R2305	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
	R2306	NRSA02J-223X	MG RESISTOR	22KΩ,1/10W
	R2307	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
	R2308	NRSA63J-153X	MG RESISTOR	15KΩ,1/16W
	R2309	NRSA02J-101X	MG RESISTOR	100Ω,1/10W
	R2310	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
	R2311	NRSA02J-101X	MG RESISTOR	100Ω,1/10W
	R2312	NRSA02J-101X	MG RESISTOR	100Ω,1/10W
	R2313	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
	R2314	NRSA63J-123X	MG RESISTOR	12KΩ,1/16W
	R2315	NRSA02J-223X	MG RESISTOR	22KΩ,1/10W
	R2316	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
	R2317	NRSA02J-562X	MG RESISTOR	5.6KΩ,1/10W
	R2318	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
	R2319	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
	R2320	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
	R2321	NRSA63J-153X	MG RESISTOR	15KΩ,1/16W
	R2322	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
	R2323	NRSA02J-105X	MG RESISTOR	1MΩ,1/10W
	R2324	NRSA02J-102X	MG RESISTOR	1KΩ,1/10W
	R2603	NRSA63J-103X	MG RESISTOR	10KΩ,1/16W
	R2604	NRSA02J-102X	MG RESISTOR	1KΩ,1/10W
	R2605	NRSA02J-102X	MG RESISTOR	1KΩ,1/10W
	R2606	NRSA63J-823X	MG RESISTOR	82KΩ,1/16W
	R2607	NRSA63J-823X	MG RESISTOR	82KΩ,1/16W
	R2608	NRSA63J-220X	MG RESISTOR	22Ω,1/16W
	R2609	NRSA63J-220X	MG RESISTOR	22Ω,1/16W
	R2610	NRSA63J-220X	MG RESISTOR	22Ω,1/16W
	R2611	NRSA63J-220X	MG RESISTOR	22Ω,1/16W
	R2614	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
	R2615	NRSA63J-123X	MG RESISTOR	12KΩ,1/16W
	R2617	NRSA63J-102X	MG RESISTOR	1KΩ,1/16W
	R2618	NRSA63J-102X	MG RESISTOR	1KΩ,1/16W
	R2619	NRSA63J-2R2X	MG RESISTOR	2.2Ω,1/16W
	R2620	NRSA63J-561X	MG RESISTOR	560Ω,1/16W
	R2621	NRSA02J-102X	MG RESISTOR	1KΩ,1/10W
	R2622	NRSA63J-273X	MG RESISTOR	27KΩ,1/16W
	R2623	NRSA63J-471X	MG RESISTOR	470Ω,1/16W
	R2625	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
	R2626	NRSA63J-273X	MG RESISTOR	27KΩ,1/16W
	R2627	NRSA63J-331X	MG RESISTOR	330Ω,1/16W
	R2628	NRSA63J-331X	MG RESISTOR	330Ω,1/16W
	R2629	NRSA63J-273X	MG RESISTOR	27KΩ,1/16W
	R2630	NRSA63J-331X	MG RESISTOR	330Ω,1/16W
	R2631	NRSA02J-222X	MG RESISTOR	2.2KΩ,1/10W
	R2632	NRSA63J-682X	MG RESISTOR	6.8KΩ,1/16W
	R2633	NRSA63J-563X	MG RESISTOR	56KΩ,1/16W
	R2634	NRSA63J-331X	MG RESISTOR	330Ω,1/16W
	R2638	NRSA02J-151X	MG RESISTOR	150Ω,1/10W
	R2639	NRSA63J-683X	MG RESISTOR	68KΩ,1/16W
	R2640	NRSA63J-331X	MG RESISTOR	330Ω,1/16W
	R2642	NRSA02J-222X	MG RESISTOR	2.2KΩ,1/10W
	R2643	NRSA02J-222X	MG RESISTOR	2.2KΩ,1/10W
	R2644	NRSA63J-331X	MG RESISTOR	330Ω,1/16W
	R2645	NRSA63J-223X	MG RESISTOR	22KΩ,1/16W
	R2646	NRSA63J-473X	MG RESISTOR	47KΩ,1/16W
	R2647	NRSA02J-222X	MG RESISTOR	2.2KΩ,1/10W
	R2649	NRSA02J-473X	MG RESISTOR	47KΩ,1/10W
	R2650	NRSA02J-222X	MG RESISTOR	2.2KΩ,1/10W
	R2651	NRSA63J-331X	MG RESISTOR	330Ω,1/16W
	R2652	NRSA63J-331X	MG RESISTOR	330Ω,1/16W
	R2653	NRSA02J-473X	MG RESISTOR	47KΩ,1/10W
	R2654	NRSA02J-473X	MG RESISTOR	47KΩ,1/10W
	R2655	NRSA63J-333X	MG RESISTOR	33KΩ,1/16W
	R2656	NRSA02J-473X	MG RESISTOR	47KΩ,1/10W
	R2657	NRSA63J-331X	MG RESISTOR	330Ω,1/16W
	R2658	NRSA63J-333X	MG RESISTOR	33KΩ,1/16W
	R2659	NRSA02J-104X	MG RESISTOR	100KΩ,1/10W
	R2660	NRSA02J-223X	MG RESISTOR	22KΩ,1/10W

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
		R2661	NRSA63J-273X	MG RESISTOR	27KΩ,1/16W
		R2662	NRSA63J-222X	MG RESISTOR	2.2KΩ,1/16W
		R2663	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
		R2664	NRSA02J-223X	MG RESISTOR	22KΩ,1/10W
		R2665	NRSA02J-223X	MG RESISTOR	22KΩ,1/10W
		R2666	NRSA02J-223X	MG RESISTOR	22KΩ,1/10W
		R2667	NRSA02J-222X	MG RESISTOR	2.2KΩ,1/10W
		R2668	NRSA02J-223X	MG RESISTOR	22KΩ,1/10W
		R2669	NRSA63J-104X	MG RESISTOR	100KΩ,1/16W
		R2670	NRSA63J-222X	MG RESISTOR	2.2KΩ,1/16W
		R2671	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
		R2672	NRSA63J-104X	MG RESISTOR	100KΩ,1/16W
		R2673	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
		R2674	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
		R2675	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
		R4001	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
		R4002	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
		R4003	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
		R4004	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
		R4005	NRSA02J-101X	MG RESISTOR	100Ω,1/10W
		R4006	NRSA63J-103X	MG RESISTOR	10KΩ,1/16W
		R4007	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
		R4008	X-R803R9821F	MG RESISTOR	820Ω,1/16W±1%
		R4009	NRSA63J-220X	MG RESISTOR	22Ω,1/16W
		R4010	NRSA02J-101X	MG RESISTOR	100Ω,1/10W
		R4011	NRSA02J-101X	MG RESISTOR	100Ω,1/10W
		R4012	NRSA63J-472X	MG RESISTOR	4.7KΩ,1/16W
		R4013	NRSA63J-123X	MG RESISTOR	12KΩ,1/16W
		R4015	NRSA63J-330X	MG RESISTOR	33Ω,1/16W
		R4016	NRSA02J-101X	MG RESISTOR	100Ω,1/10W
		R4017	NRSA02J-101X	MG RESISTOR	100Ω,1/10W
		R4018	NRSA02J-101X	MG RESISTOR	100Ω,1/10W
		R4019	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
		R4021	NRSA63J-105X	MG RESISTOR	1MΩ, 1/16W
		R4023	NRSA02J-472X	MG RESISTOR	4.7KΩ,1/10W
		R4024	NRSA02J-472X	MG RESISTOR	4.7KΩ,1/10W
		R4025	NRSA02J-472X	MG RESISTOR	4.7KΩ,1/10W
		R4026	NRSA02J-472X	MG RESISTOR	4.7KΩ,1/10W
		R4027	NRSA63J-100X	MG RESISTOR	10Ω,1/16W
		R4028	X-R803R9511F	MG RESISTOR	510Ω,1/16W±1%
		R4029	X-R803R9102F	MG RESISTOR	1KΩ,1/16W±1%
		R4030	NRSA02J-102X	MG RESISTOR	1KΩ,1/10W
		R8501	NRSA63F-750X	MG RESISTOR	75Ω,1/16W±1%
		R8502	NRSA63F-750X	MG RESISTOR	75Ω,1/16W±1%
		R8503	NRSA63F-750X	MG RESISTOR	75Ω,1/16W±1%
		R8504	NRSA63F-750X	MG RESISTOR	75Ω,1/16W±1%
		R8510	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
		R8511	NRSA63J-103X	MG RESISTOR	10KΩ,1/16W
		R8514	NRSA63F-750X	MG RESISTOR	75Ω,1/16W±1%
		R8515	NRSA63F-750X	MG RESISTOR	75Ω,1/16W±1%
		R8516	NRSA02J-681X	MG RESISTOR	680Ω,1/10W
		R8517	NRSA63F-750X	MG RESISTOR	75Ω,1/16W±1%
		R8518	NRSA63F-750X	MG RESISTOR	75Ω,1/16W±1%
		R8519	NRSA63F-750X	MG RESISTOR	75Ω,1/16W±1%
		R8520	NRSA02J-102X	MG RESISTOR	1KΩ,1/10W
		R8521	NRSA63F-750X	MG RESISTOR	75Ω,1/16W±1%
		R8522	NRSA63J-104X	MG RESISTOR	100KΩ,1/16W
		R8523	NRSA63J-104X	MG RESISTOR	100KΩ,1/16W
		C1001	NCF31EZ-104X	CAPACITOR	0.1μF,25V
		C1002	X-CS0PCH4G1J	CAPACITOR	18pF,50V
		C1003	X-CS0PCH4G1J	CAPACITOR	18pF,50V

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
		C1004	QECP0JM-157	E CAPACITOR	150μF,6.3V
		C1005	NCF31EZ-104X	CAPACITOR	0.1μF,25V
		C1006	NCB31EZ-104X	CAPACITOR	0.1μF,25V
		C1007	QECP0JM-157	E CAPACITOR	150μF,6.3V
		C1008	NCF31EZ-104X	CAPACITOR	0.1μF,25V
		C1009	NCF31EZ-104X	CAPACITOR	0.1μF,25V
		C1010	NDC31HJ-471X	CAPACITOR	470pF,50V
		C1011	NCF31EZ-104X	CAPACITOR	0.1μF,25V
		C1012	X-E524U2470D	E CAPACITOR	47μF,16V
		C1013	NCB31EZ-104X	CAPACITOR	0.1μF,25V
		C1014	NCB31EZ-104X	CAPACITOR	0.1μF,25V
		C1015	NCF31EZ-104X	CAPACITOR	0.1μF,25V
		C1016	NDC31HJ-101X	CAPACITOR	100pF,50V
		C1017	NDC31HJ-101X	CAPACITOR	100pF,50V
		C1018	X-CS0RB0216K	CAPACITOR	1μF,16V
		C1019	NCF31EZ-104X	CAPACITOR	0.1μF,25V
		C1020	NDC31HJ-220X	CAPACITOR	22pF,50V
		C1021	NCF31EZ-104X	CAPACITOR	0.1μF,25V
		C2002	NCB31CK-104X	CAPACITOR	0.1μF,16V
		C2003	NCB31HK-102X	CAPACITOR	0.001μF,50V
		C2006	NCB31HK-102X	CAPACITOR	0.001μF,50V
		C2009	NCB31CK-104X	CAPACITOR	0.1μF,16V
		C2010	QECP0JM-157	E CAPACITOR	150μF,6.3V
		C2011	NCB31HK-102X	CAPACITOR	0.001μF,50V
		C2014	NCB31HK-102X	CAPACITOR	0.001μF,50V
		C2015	NCB31HK-102X	CAPACITOR	0.001μF,50V
		C2016	NCB31HK-102X	CAPACITOR	0.001μF,50V
		C2017	NDC31HJ-471X	CAPACITOR	470pF,50V
		C2018	NDC31HJ-471X	CAPACITOR	470pF,50V
		C2019	NCB31CK-104X	CAPACITOR	0.1μF,16V
		C2020	NCB31HK-102X	CAPACITOR	0.001μF,50V
		C2021	NCB31CK-104X	CAPACITOR	0.1μF,16V
		C2023	QECP0JM-157	E CAPACITOR	150μF,6.3V
		C2024	NCB31CK-104X	CAPACITOR	0.1μF,16V
		C2030	NCB31CK-104X	CAPACITOR	0.1μF,16V
		C2031	NCB31CK-104X	CAPACITOR	0.1μF,16V
		C2032	NCB31CK-104X	CAPACITOR	0.1μF,16V
		C2033	QECP0JM-157	E CAPACITOR	150μF,6.3V
		C2034	NCB31HK-103X	CAPACITOR	0.01μF,50V
		C2035	NCB31CK-104X	CAPACITOR	0.1μF,16V
		C2036	NCB31CK-104X	CAPACITOR	0.1μF,16V
		C2037	NCB31CK-104X	CAPACITOR	0.1μF,16V
		C2038	NCB31CK-104X	CAPACITOR	0.1μF,16V
		C2039	NDC31HJ-150X	CAPACITOR	15pF,50V
		C2040	NDC31HJ-150X	CAPACITOR	15pF,50V
		C2041	NCB31CK-104X	CAPACITOR	0.1μF,16V
		C2043	NDC31HJ-151X	CAPACITOR	150pF,50V
		C2045	QECP0JM-157	E CAPACITOR	150μF,6.3V
		C2046	QECP0JM-157	E CAPACITOR	150μF,6.3V
		C2048	NCB31CK-104X	CAPACITOR	0.1μF,16V
		C2049	NCB31CK-104X	CAPACITOR	0.1μF,16V
		C2050	QECP0JM-157	E CAPACITOR	150μF,6.3V
		C2051	QECP0JM-157	E CAPACITOR	150μF,6.3V
		C2052	NCB31CK-104X	CAPACITOR	0.1μF,16V
		C2053	QECP0JM-157	E CAPACITOR	150μF,6.3V
		C2301	NCB31CK-104X	CAPACITOR	0.1μF,16V
		C2303	NCB31CK-104X	CAPACITOR	0.1μF,16V
		C2304	NCB31CK-104X	CAPACITOR	0.1μF,16V
		C2305	NCB31CK-104X	CAPACITOR	0.1μF,16V
		C2306	NCB31CK-104X	CAPACITOR	0.1μF,16V
		C2307	NCB31HK-222X	CAPACITOR	0.0022μF,50V

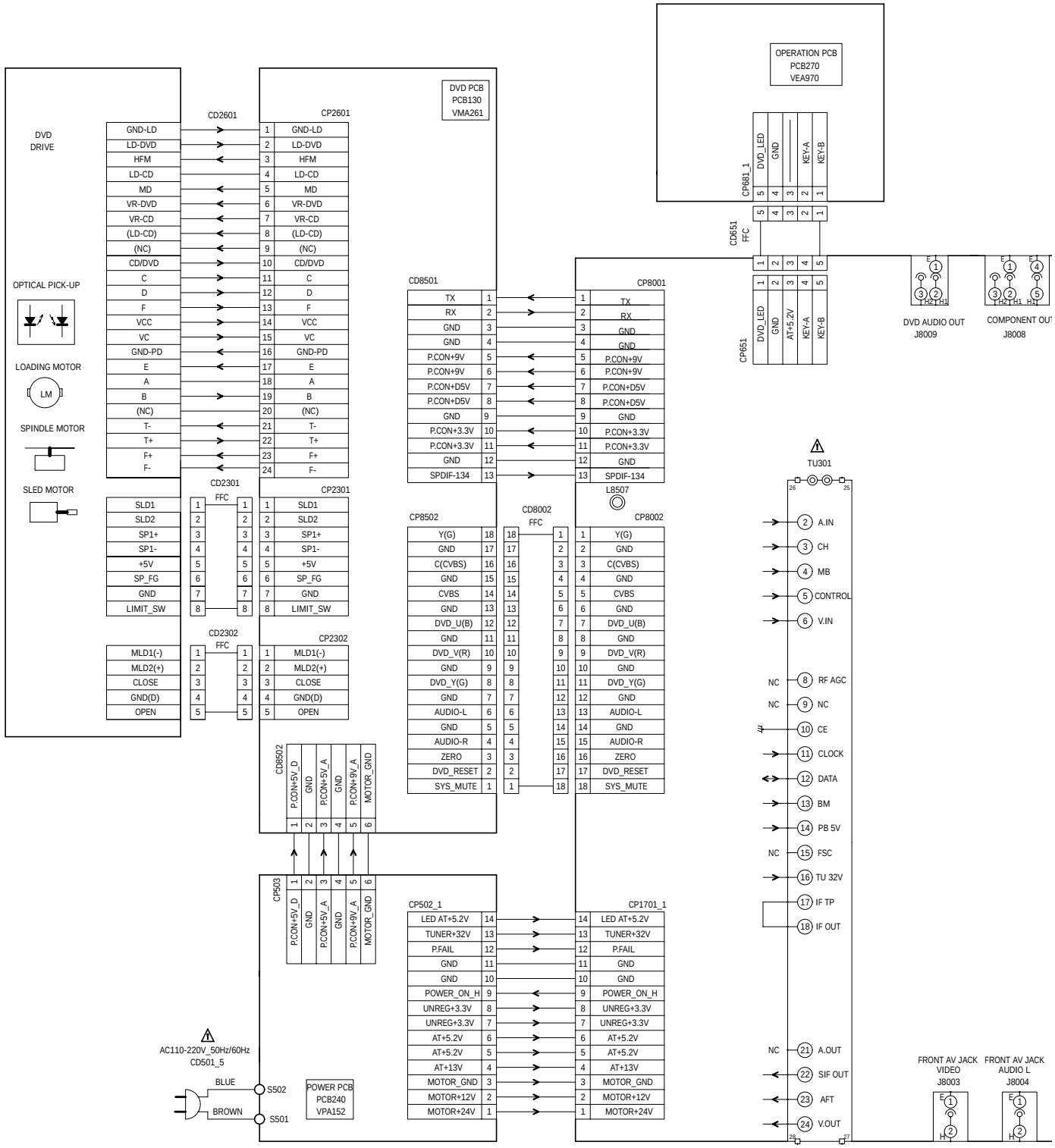
#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
		C2308	NCB31CK-104X	CAPACITOR	0.1µF,16V
		C2309	X-E524U1101D	E CAPACITOR	100µF,10V
		C2310	NCB31CK-104X	CAPACITOR	0.1µF,16V
		C2315	NCB31CK-104X	CAPACITOR	0.1µF,16V
		C2601	X-E524U2470D	E CAPACITOR	47µF,16V
		C2602	X-E524U2470D	E CAPACITOR	47µF,16V
		C2605	NDC31HJ-820X	CAPACITOR	82pF,50V
		C2608	NCB31CK-104X	CAPACITOR	0.1µF,16V
		C2609	NCB31HK-102X	CAPACITOR	0.001µF,50V
		C2610	NCB31HK-102X	CAPACITOR	0.001µF,50V
		C2611	X-E524U2100D	E CAPACITOR	10µF,16V
		C2612	X-E524U2100D	E CAPACITOR	10µF,16V
		C2613	NDC31HJ-470X	CAPACITOR	47pF,50V
		C2614	NCB31CK-104X	CAPACITOR	0.1µF,16V
		C2615	NDC31HJ-390X	CAPACITOR	39pF,50V
		C2616	NDC31HJ-560X	CAPACITOR	56pF,50V
		C2617	NDC31HJ-151X	CAPACITOR	150pF,50V
		C2618	QECP0JM-157	E CAPACITOR	150µF,6.3V
		C2619	NDC31HJ-151X	CAPACITOR	150pF,50V
		C2620	X-E524U5010D	E CAPACITOR	1µF,50V
		C2621	NDC31HJ-151X	CAPACITOR	150pF,50V
		C2622	NDC31HJ-151X	CAPACITOR	150pF,50V
		C2623	NDC31HJ-330X	CAPACITOR	33pF,50V
		C2625	NCB31CK-104X	CAPACITOR	0.1µF,16V
		C2626	NDC31HJ-680X	CAPACITOR	68pF,50V
		C2627	NDC31HJ-221X	CAPACITOR	220pF,50V
		C2629	NDC31HJ-561X	CAPACITOR	560pF,50V
		C2631	NDC31HJ-330X	CAPACITOR	33pF,50V
		C2633	NDC31HJ-470X	CAPACITOR	47pF,50V
		C2634	NDC31HJ-101X	CAPACITOR	100pF,50V
		C2635	X-E524U2470D	E CAPACITOR	47µF,16V
		C2636	NDC31HJ-820X	CAPACITOR	82pF,50V
		C2637	NDC31HJ-560X	CAPACITOR	56pF,50V
		C2639	NDC31HJ-221X	CAPACITOR	220pF,50V
		C2640	NCB31HK-472X	CAPACITOR	0.0047µF,50V
		C2641	NDC31HJ-330X	CAPACITOR	33pF,50V
		C2642	NDC31HJ-220X	CAPACITOR	22pF,50V
		C2643	NDC31HJ-471X	CAPACITOR	470pF,50V
		C2644	X-CS0PCH4G1J	CAPACITOR	18pF,50V
		C2645	NDC31HJ-151X	CAPACITOR	150pF,50V
		C2646	NDC31HJ-221X	CAPACITOR	220pF,50V
		C2647	NDC31HJ-470X	CAPACITOR	47pF,50V
		C2648	NCB31CK-104X	CAPACITOR	0.1µF,16V
		C2649	NCB31CK-104X	CAPACITOR	0.1µF,16V
		C2650	NCB31CK-104X	CAPACITOR	0.1µF,16V
		C2651	NCB31CK-104X	CAPACITOR	0.1µF,16V
		C2652	X-E524U0470D	E CAPACITOR	47µF,6.3V
		C2653	NCB31CK-104X	CAPACITOR	0.1µF,16V
		C2654	X-E524U0470D	E CAPACITOR	47µF,6.3V
		C2655	X-E524U0470D	E CAPACITOR	47µF,6.3V
		C2656	NCB31CK-104X	CAPACITOR	0.1µF,16V
		C2658	NCB31CK-104X	CAPACITOR	0.1µF,16V
		C2659	NCB31CK-104X	CAPACITOR	0.1µF,16V
		C4001	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C4002	NCF31EZ-104X	CAPACITOR	0.1µF,25V
		C4003	NCF31EZ-104X	CAPACITOR	0.1µF,25V
		C4004	NCF31EZ-104X	CAPACITOR	0.1µF,25V
		C4005	NCF31EZ-104X	CAPACITOR	0.1µF,25V
		C4006	NCF31EZ-104X	CAPACITOR	0.1µF,25V
		C4007	NCF31EZ-104X	CAPACITOR	0.1µF,25V
		C4008	NCF31EZ-104X	CAPACITOR	0.1µF,25V
		C4009	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C4010	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C4011	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C4012	NDC31HJ-030X	CAPACITOR	3pF,50V
		C4013	NDC31HJ-030X	CAPACITOR	3pF,50V
		C4014	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C4015	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C4016	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C4017	QECP0JM-157	E CAPACITOR	150µF,6.3V
		C4018	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C4019	NCF31EZ-104X	CAPACITOR	0.1µF,25V
		C4020	QECP0JM-157	E CAPACITOR	150µF,6.3V
		C4022	NCF31EZ-104X	CAPACITOR	0.1µF,25V
		C4023	QECP0JM-157	E CAPACITOR	150µF,6.3V
		C4024	NCF31EZ-104X	CAPACITOR	0.1µF,25V
		C4025	X-E524U0470D	E CAPACITOR	47µF,6.3V
		C4026	NCF31EZ-104X	CAPACITOR	0.1µF,25V
		C4027	NCF31EZ-104X	CAPACITOR	0.1µF,25V
		C4028	NCF31EZ-104X	CAPACITOR	0.1µF,25V
		C4029	X-E524U0470D	E CAPACITOR	47µF,6.3V
		C4030	NCF31EZ-104X	CAPACITOR	0.1µF,25V
		C4031	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C4032	NCF31EZ-104X	CAPACITOR	0.1µF,25V
		C4033	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C4034	NCF31EZ-104X	CAPACITOR	0.1µF,25V
		C4035	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C4036	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C4037	NCF31EZ-104X	CAPACITOR	0.1µF,25V
		C4038	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C4039	NCF31EZ-104X	CAPACITOR	0.1µF,25V
		C4040	NCF31EZ-104X	CAPACITOR	0.1µF,25V
		C4041	X-E524U1101D	E CAPACITOR	100µF,10V
		C4043	X-E524U1101D	E CAPACITOR	100µF,10V
		C4044	NCF31EZ-104X	CAPACITOR	0.1µF,25V
		C4045	X-E524U1101D	E CAPACITOR	100µF,10V
		C8503	X-E524U2100D	E CAPACITOR	10µF,16V
		C8506	NCF31EZ-104X	CAPACITOR	0.1µF,25V
		C8516	X-CS0RB0216K	CAPACITOR	1µF,16V
		C8517	X-CS0RB0216K	CAPACITOR	1µF,16V
		C8518	X-CS0RB0216K	CAPACITOR	1µF,16V
		C8519	X-CS0RB0216K	CAPACITOR	1µF,16V
		C8520	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C8521	NCF31EZ-104X	CAPACITOR	0.1µF,25V
		C8522	X-E524U1101D	E CAPACITOR	100µF,10V
		C8523	X-E524U1101D	E CAPACITOR	100µF,10V
		C8524	NCF31EZ-104X	CAPACITOR	0.1µF,25V
		C8525	QECP1AM-127	E CAPACITOR	120µF,10V
		C8526	QECP1AM-127	E CAPACITOR	120µF,10V
		C8529	NCF21CZ-2R2X	CAPACITOR	2.2µF,16V
		C8530	NCF21CZ-2R2X	CAPACITOR	2.2µF,16V
		C8534	X-E524U1101D	E CAPACITOR	100µF,10V
		C8535	NCF31EZ-104X	CAPACITOR	0.1µF,25V
		C8536	X-E524U0220D	E CAPACITOR	22µF,6.3V
		C8537	X-E524U0220D	E CAPACITOR	22µF,6.3V
		C8538	NCF31EZ-104X	CAPACITOR	0.1µF,25V
		D1001	X-DDDRL41480	DIODE	MCL4148
		D2601	X-DDARDS1210	DIODE	KDS121RTK
		D2602	X-DDARDS1200	DIODE	KDS120RTK
		D8501	X-DD5R002260	DIODE	1SS226(TE85L)
		D8502	X-DD5R002260	DIODE	1SS226(TE85L)
		D8503	X-DD5R002260	DIODE	1SS226(TE85L)

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
		D8504	X-DD5R002260	DIODE	1SS226(TE85L)
		D8505	X-DD5R002260	DIODE	1SS226(TE85L)
		D8506	X-DD5R002260	DIODE	1SS226(TE85L)
		IC1001	X-ICQF067050	IC	ZR36705
		IC1006	S-24C02BFJ-X	IC	S-24C04BFJ-TB
		IC2001	X-I53F086610	IC	LC78661W
		IC2002	X-I59J0258B3	IC	MSM5416258B-30
		IC2301	X-I03F065600	IC	LA6560
		IC2601	X-I07F04066F	IC	BU4066BCF
		IC2602	X-I03FR97020	IC	LA9702WL
		IC4001	X-ICQF067320	IC	ZR36732
		IC4002	X-I59J0160FB	IC	MSM56V16160F-8
		IC4005	X-ICMJ0800A7	IC	SST39VF800A-70-4C-EK
		IC4006	X-I0GF9XZ010	IC	PQ070XZ01ZP
		IC8501	X-I0UFG540A0	IC	MM1540AFBE
		IC8503	X-I17F017480	IC	PCM1748E
		IC8504	SN74LV4052APW-X	IC	SN74LV4052APW
		Q2301	X-TCAA3875SY	TRANSISTOR	KTC3875S_Y_RTK
		Q2302	X-TAAA1504SY	TRANSISTOR	KTA1504S_Y_RTK
		Q2303	X-TNAAB05003	TRANSISTOR	KRC102SRTK
		Q2304	X-TAAA1504SY	TRANSISTOR	KTA1504S_Y_RTK
		Q2601	X-TCAA3875SY	TRANSISTOR	KTC3875S_Y_RTK
		Q2603	2SA1036K/QR/-X	TRANSISTOR	2SA1036KT146
		Q2604	2SA1036K/QR/-X	TRANSISTOR	2SA1036KT146
		Q2605	X-TAAA1504SY	TRANSISTOR	KTA1504S_Y_RTK
		Q2606	X-TCAA3875SY	TRANSISTOR	KTC3875S_Y_RTK
		Q2607	X-T27T030180	FET	2SK3018
		Q2608	X-TCAA3875SY	TRANSISTOR	KTC3875S_Y_RTK
		Q2609	X-TCAA3875SY	TRANSISTOR	KTC3875S_Y_RTK
		Q2610	X-TCAA3875SY	TRANSISTOR	KTC3875S_Y_RTK
		Q2611	X-TAAA1504SY	TRANSISTOR	KTA1504S_Y_RTK
		Q2612	X-T27T030180	FET	2SK3018
		Q2613	X-T27T030180	FET	2SK3018
		Q2614	X-TCAA3875SY	TRANSISTOR	KTC3875S_Y_RTK
		Q2615	X-TCAA3875SY	TRANSISTOR	KTC3875S_Y_RTK
		Q2616	X-TCAA3875SY	TRANSISTOR	KTC3875S_Y_RTK
		Q8506	X-TS5M000037	TRANSISTOR	HN1C03F_B(TE85L)
		B1001	X-024HC31022	CORE,BEADS	
		B1002	X-024HC31022	CORE,BEADS	
		B2001	X-024HC31022	CORE,BEADS	
		B2002	X-024HC31022	CORE,BEADS	
		B2003	X-024HC31022	CORE,BEADS	
		B2601	X-024HC31022	CORE,BEADS	
		B2602	X-024HC31022	CORE,BEADS	
		B2604	X-024HC31022	CORE,BEADS	
		B2605	X-024HC31022	CORE,BEADS	
		B2606	X-024HC31022	CORE,BEADS	
		B4001	X-024HC31022	CORE,BEADS	
		B4002	X-024HC31022	CORE,BEADS	
		B4003	X-024HC31022	CORE,BEADS	
		B4004	X-024HC31022	CORE,BEADS	
		B8501	X-024HC31022	CORE,BEADS	
		B8502	X-024HC31022	CORE,BEADS	
		L1001	QQL29BJ-2R2	COIL	2.2µH
		L8505	QQL29BJ-150	COIL	15µH
		L8507	X-02AHB9A972	CORE,FERRITE	
		CP2301	X-069EV83020	CONNECTOR PCB SIDE	
		CP2302	X-069S250639	CONNECTOR PCB SIDE	
		CP2601	X-069XYOT059	CONNECTOR,PCB SIDE	
		CP2601	X-069EYOT040	CONNECTOR PCB SIDE	
		CP8502	X-069J7I0029	CONNECTOR PCB SIDE	

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
		X1001	X-100CT01210	CRYSTAL	12.5MHz
		X2001	X-100CT01604	CRYSTAL	HC-49/U-S
		X4001	X-100WT02706	CRYSTAL	27MHz
		CD8501	X-06CU2D3201	CORD,CONNECTOR	
		CD8502	X-06CU262501	CORD,CONNECTOR	

SECTION 2
CHARTS AND DIAGRAMS

INTERCONNECTION D
(HR-XVC1UJ/M)

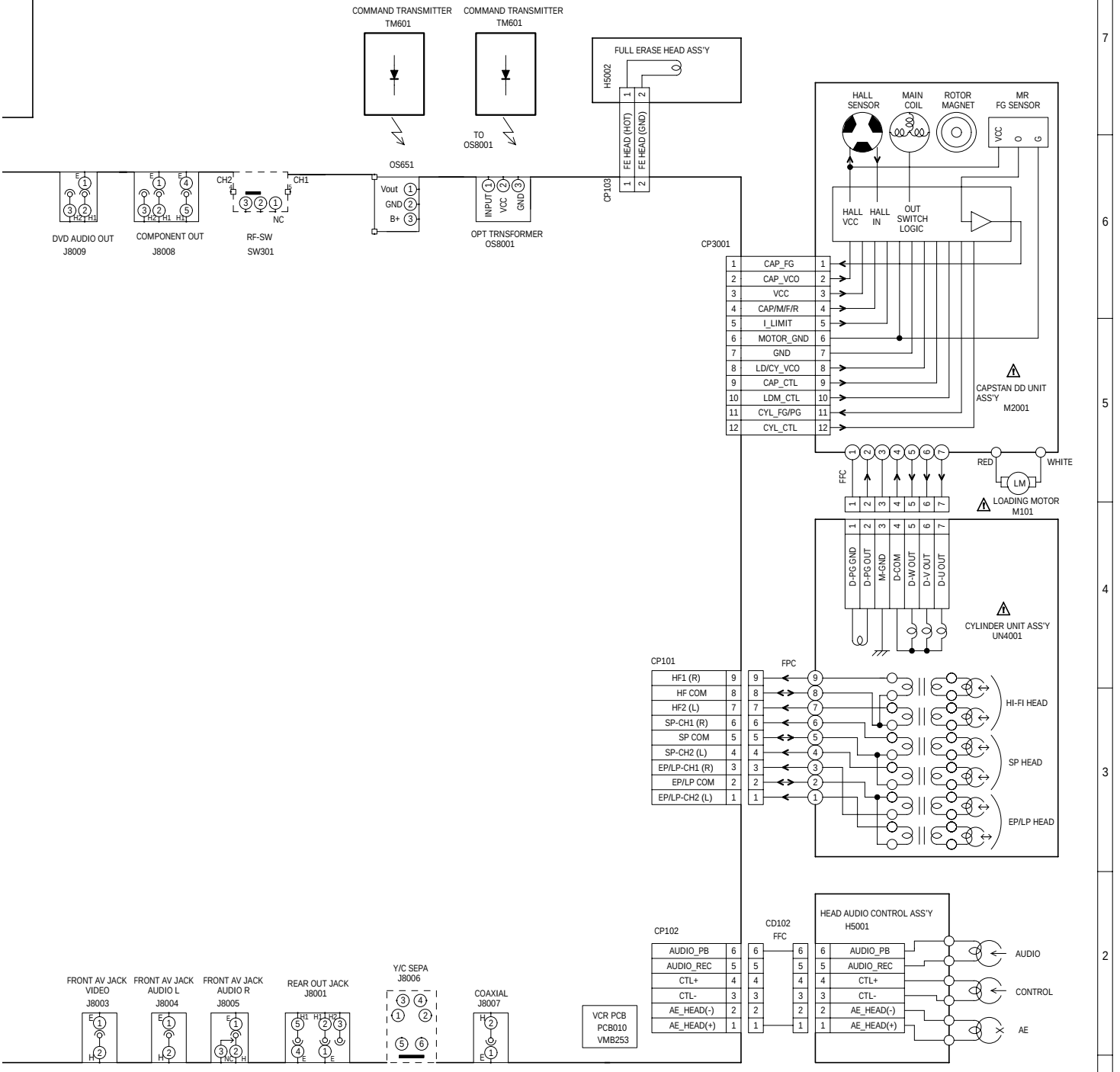


CAUTION: SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY,USE ONES DESCRIBED IN PARTS LIST ONLY 。

ATTENTION: LES PIECES REPAREES PAR UN DANGEREUSES AN POINT DE VU N'UTILISER QUE CELLS DECRITE DANS LA NOMENCLATURE DES F

RCONNECTION DIAGRAM

(HR-XVC1UJ/M)

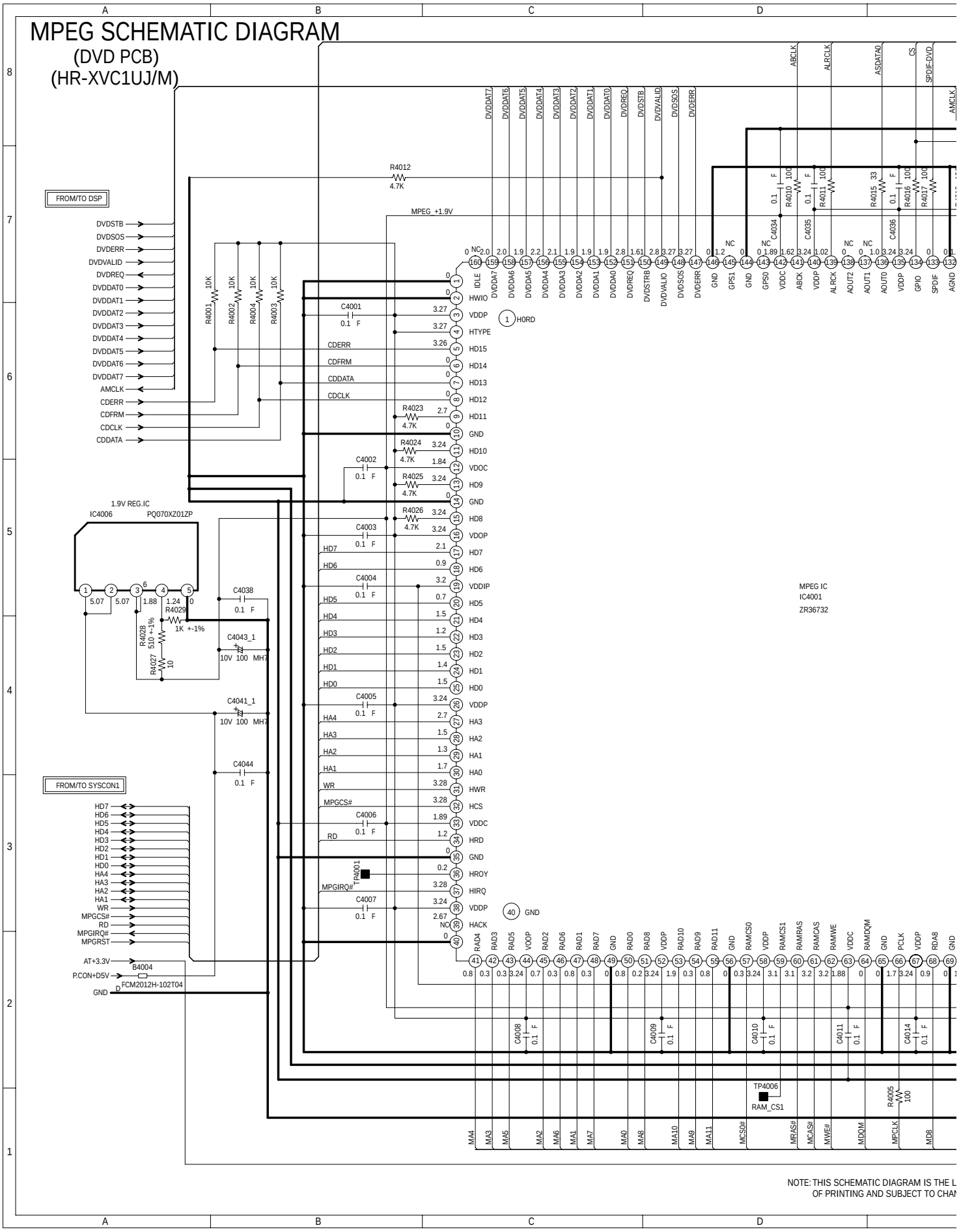


ATTENTION: LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES。

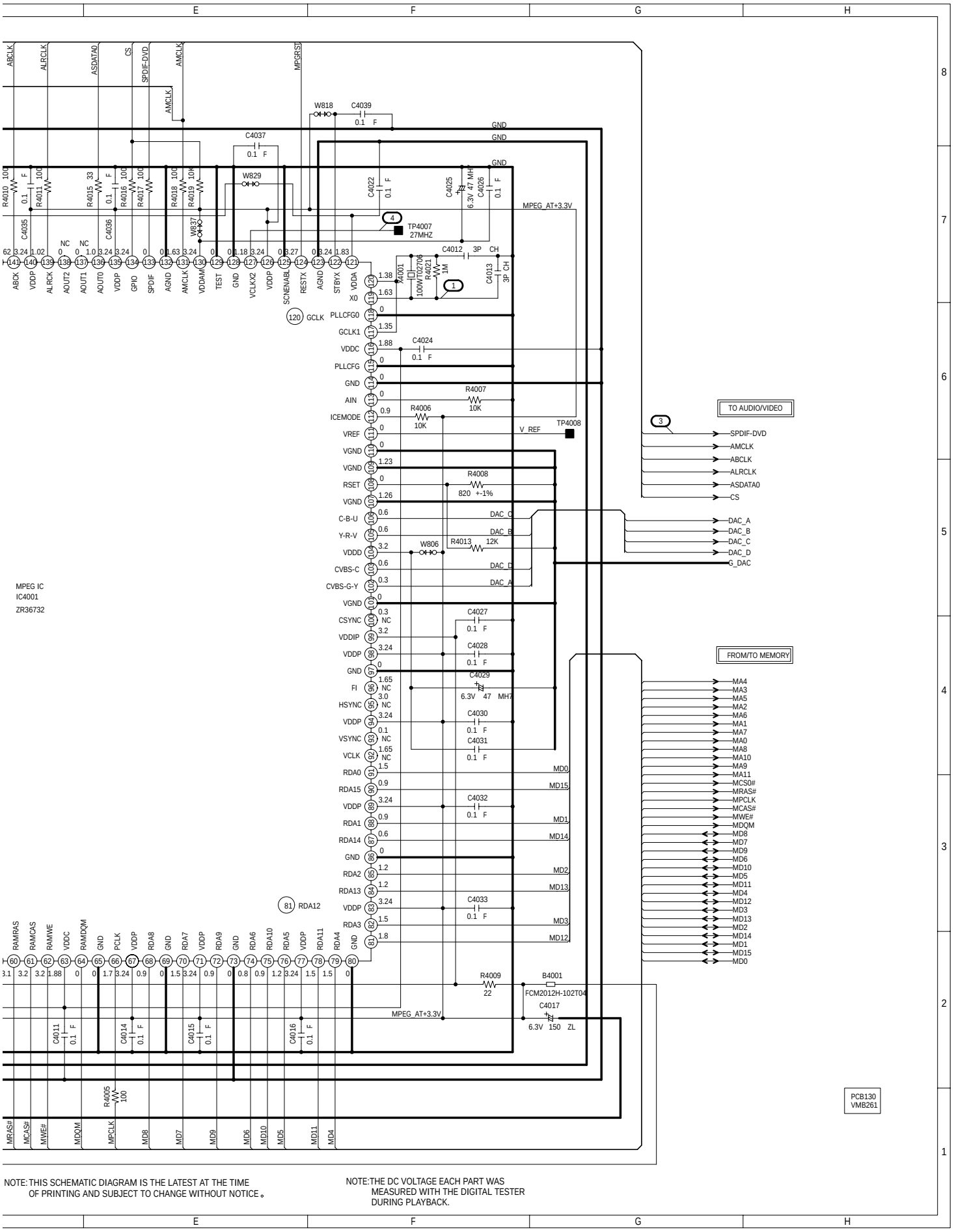
NOTE: THIS INTERCONNECTION DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE 。

MPEG SCHEMATIC DIAGRAM

(DVD PCB)
(HR-XVC1UJ/M)



Note : The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.



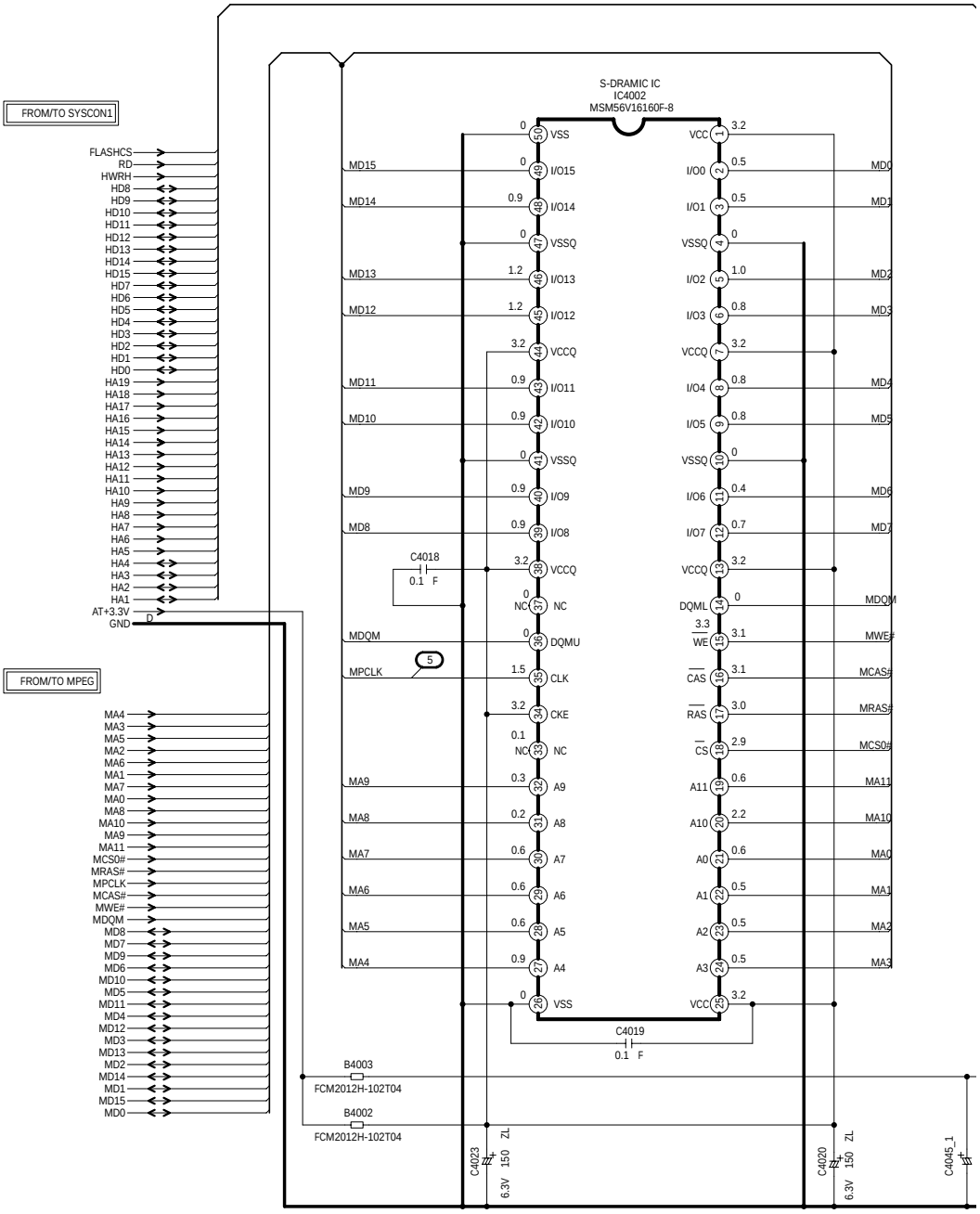
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE。

NOTE: THE DC VOLTAGE EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

MEMORY SCHEMATIC

(DVD PCB)

(HR-XVC1UJ/M)



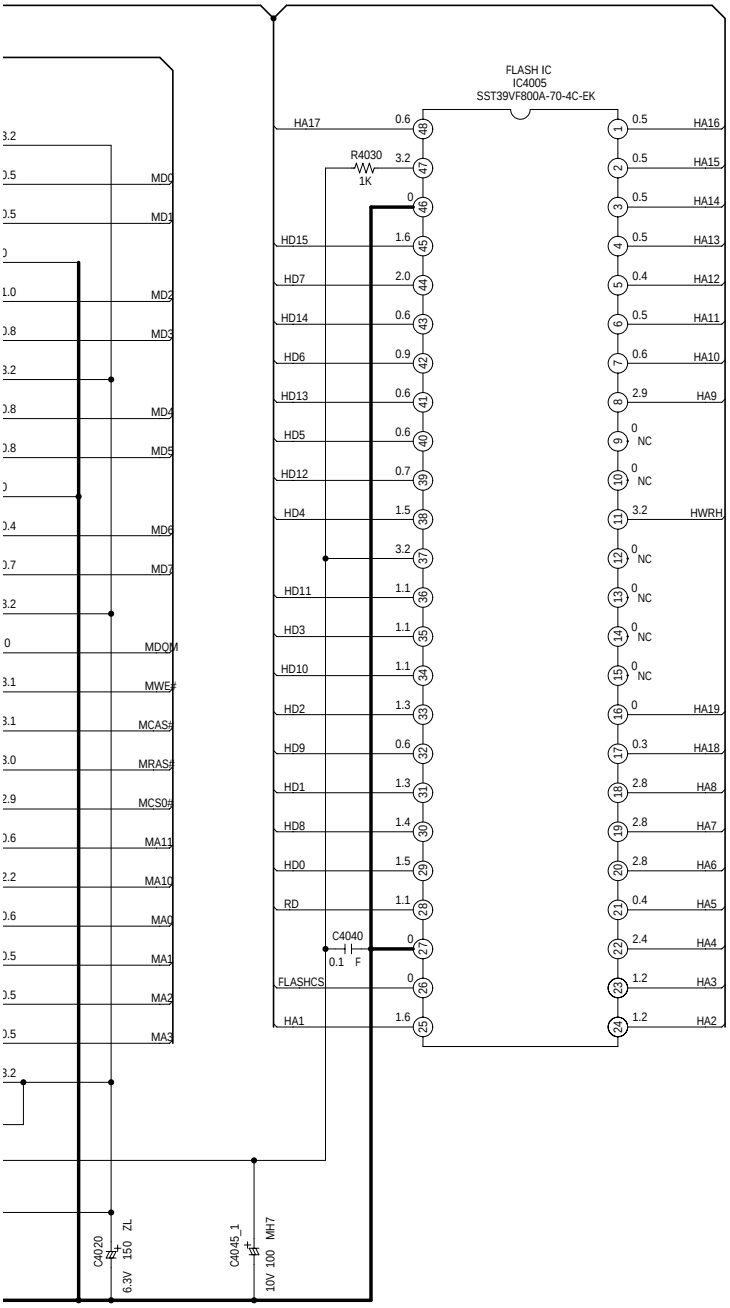
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE。

Note : The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.

ORY SCHEMATIC DIAGRAM

(DVD PCB)

(HR-XVC1UJ/M)



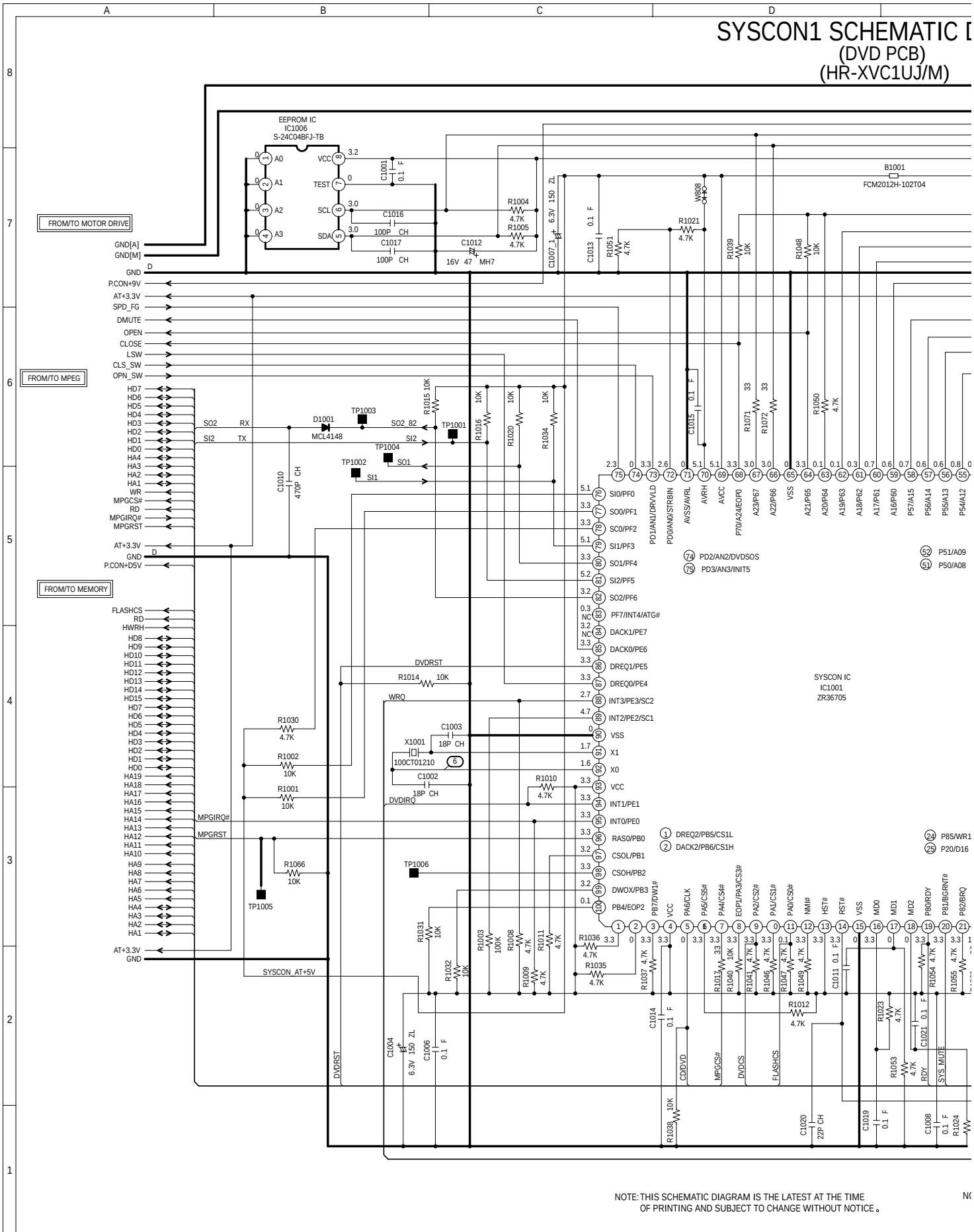
PCB130
VMB261

S THE LATEST AT THE TIME
TO CHANGE WITHOUT NOTICE 。

NOTE:THE DC VOLTAGE EACH PART WAS
MEASURED WITH THE DIGITAL TESTER
DURING PLAYBACK.

SYSCON1 SCHEMATIC D

(DVD PCB)
(HR-XVC1UJ/M)

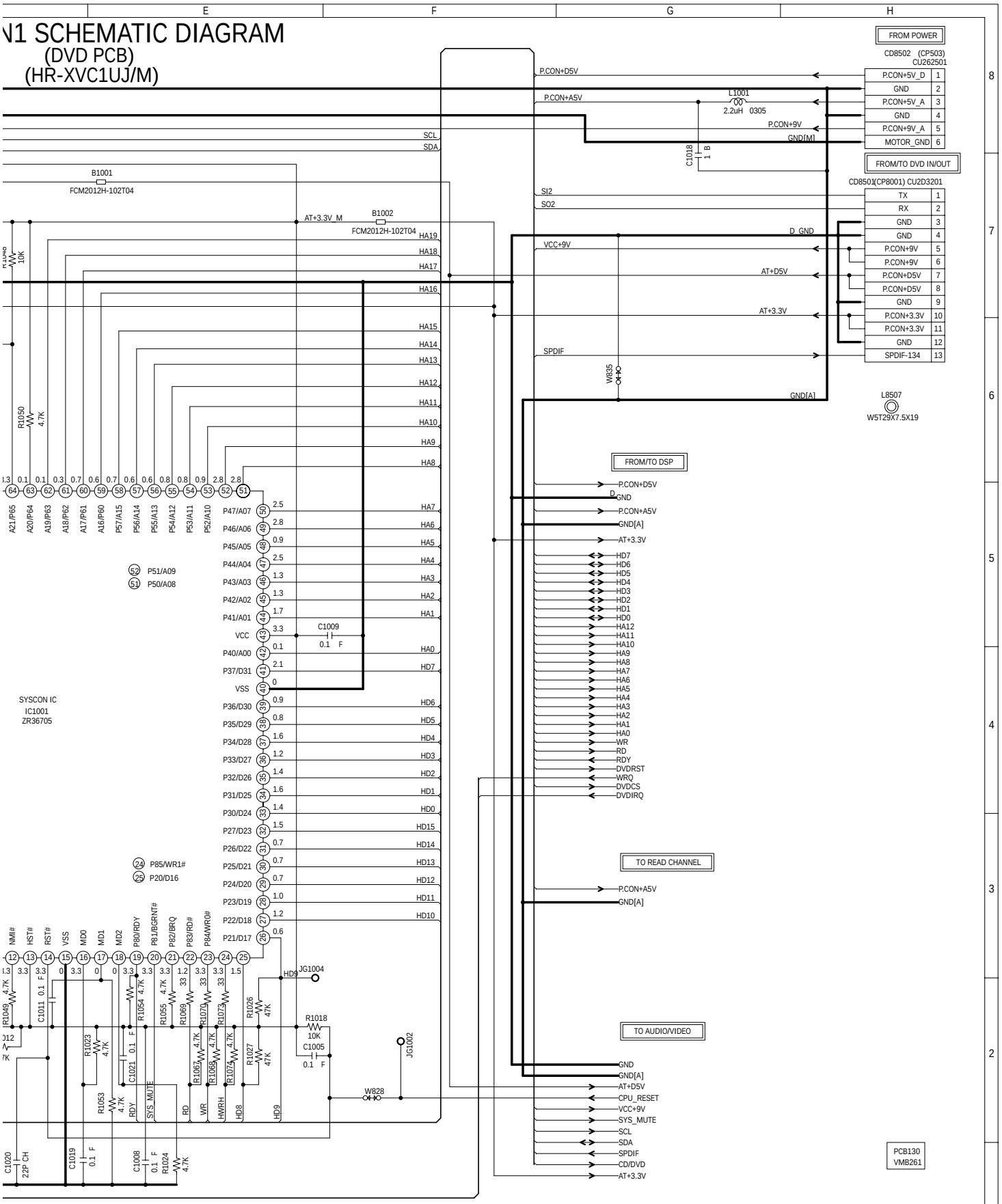


NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE。

Note : The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.

N1 SCHEMATIC DIAGRAM

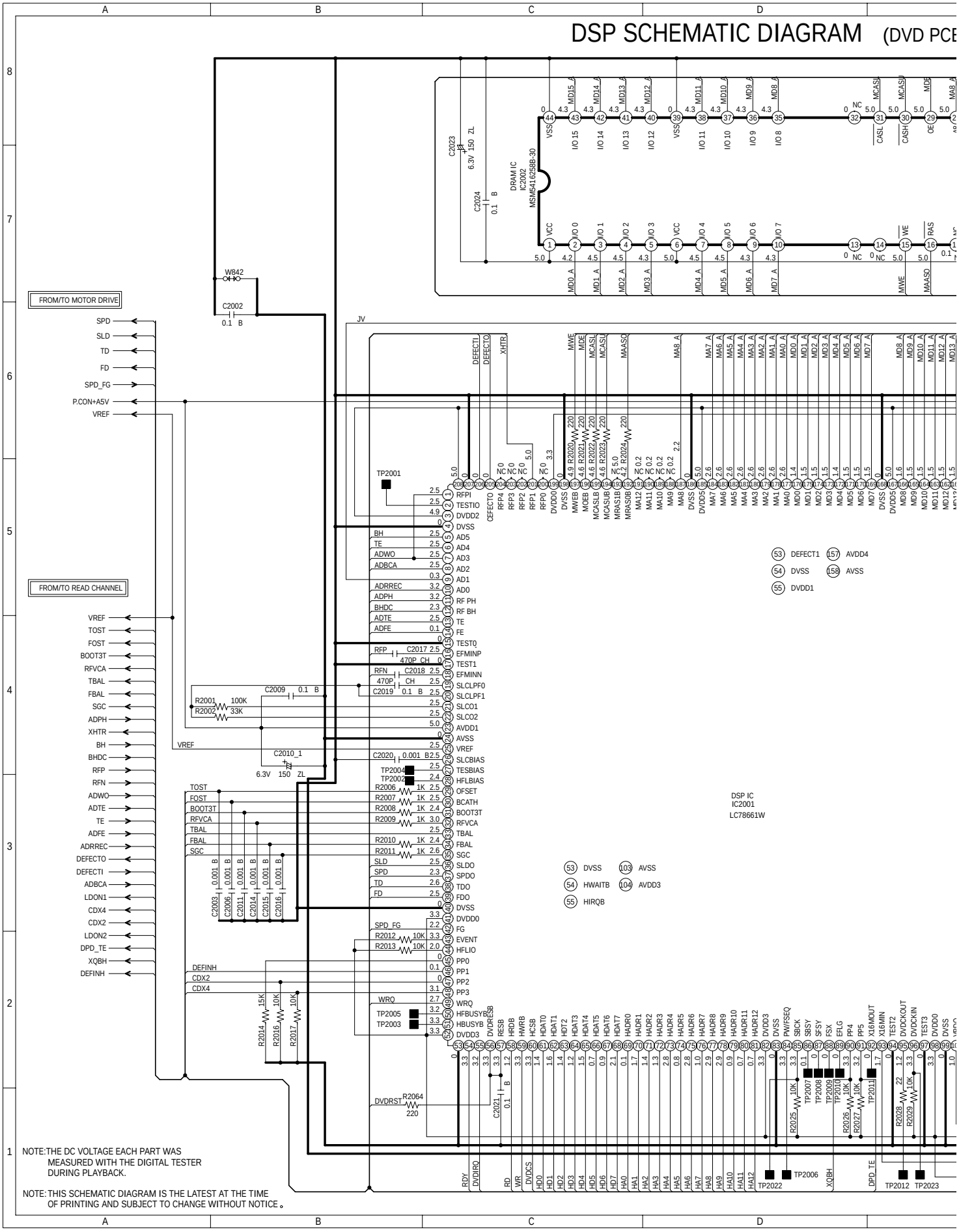
(DVD PCB)
(HR-XVC1UJ/M)



EST AT THE TIME
E WITHOUT NOTICE 。

NOTE:THE DC VOLTAGE EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

DSP SCHEMATIC DIAGRAM (DVD PCB

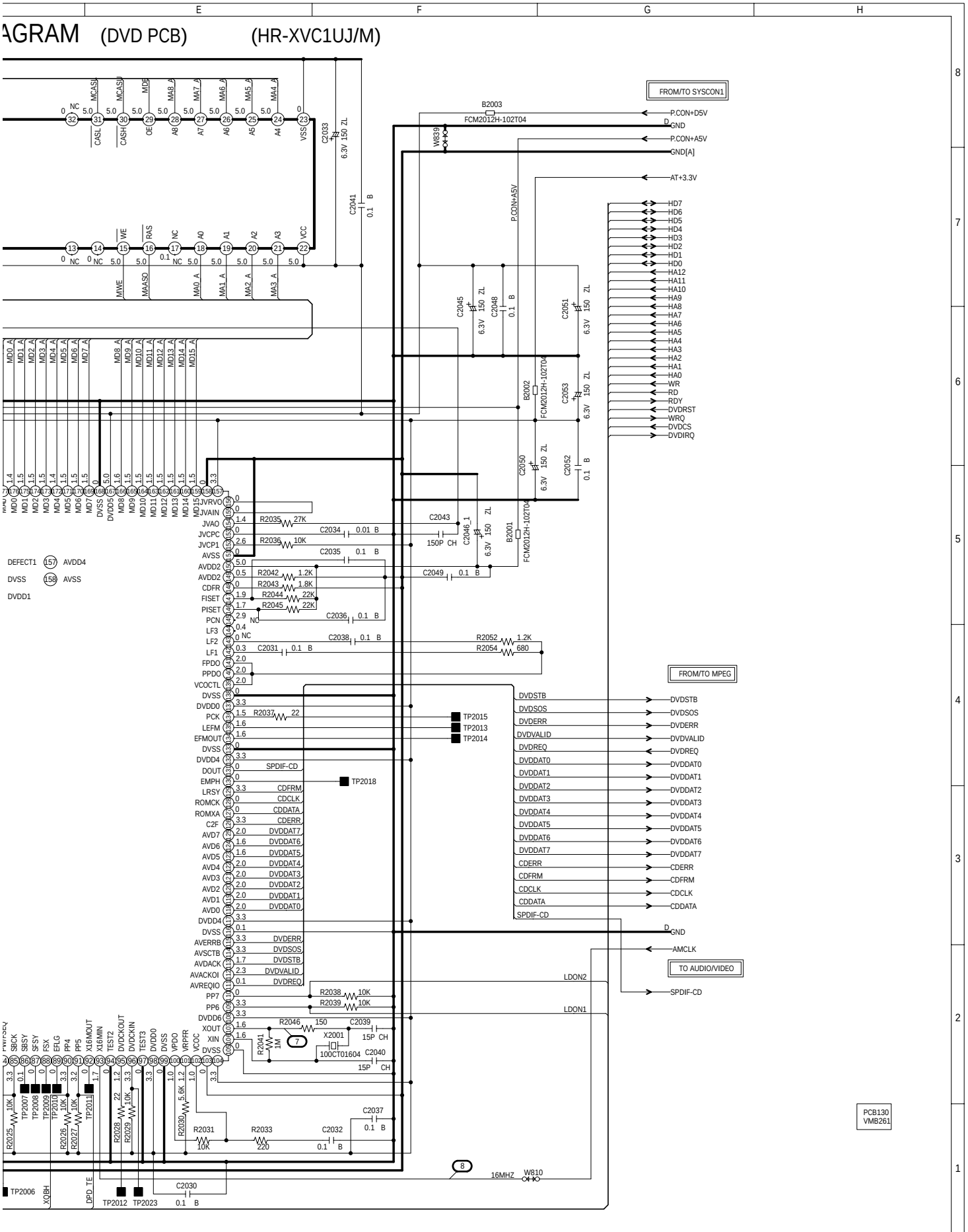


NOTE:THE DC VOLTAGE EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE。

Note : The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.

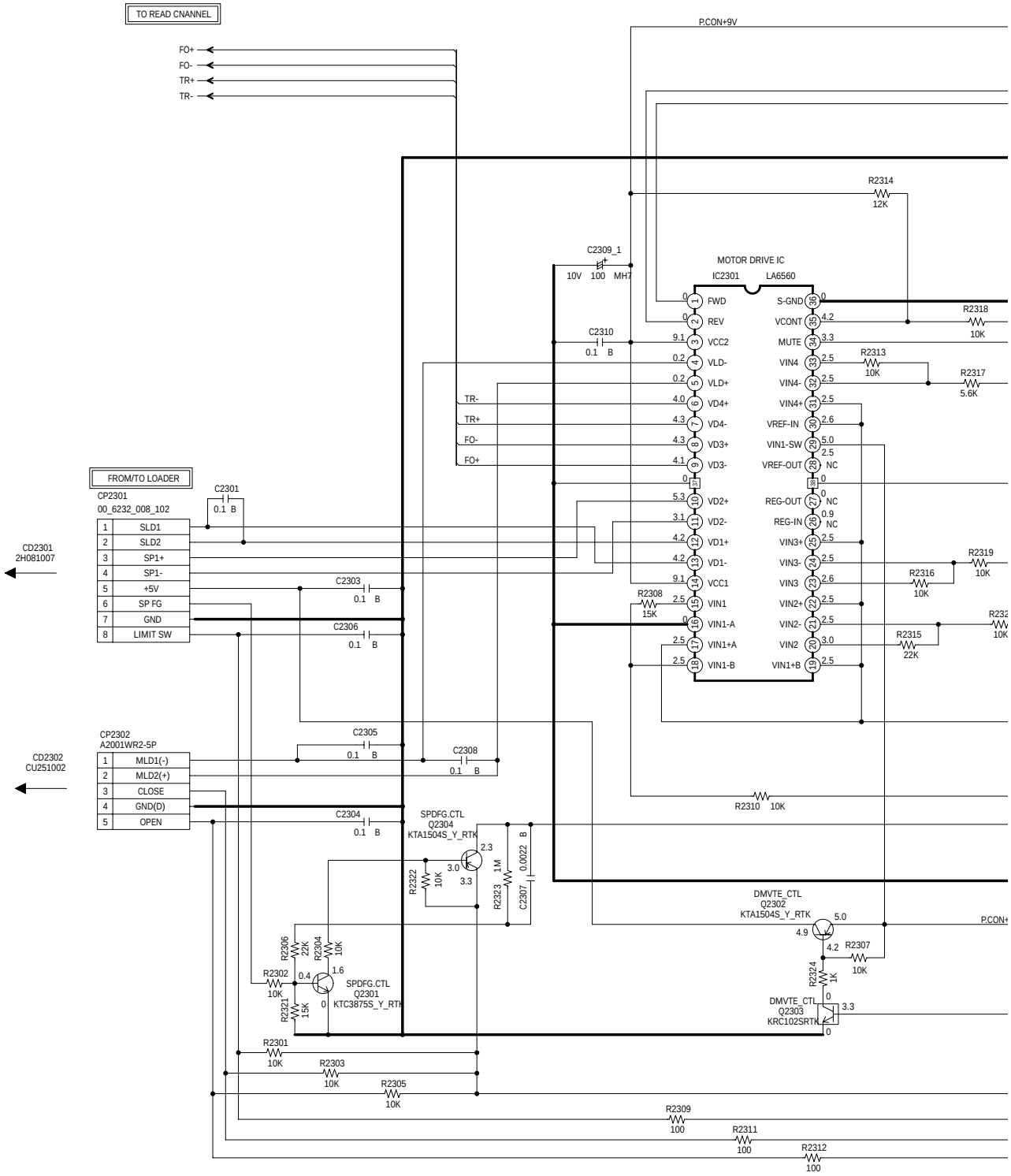
AGRAM (DVD PCB) (HR-XVC1UJ/M)



MOTOR DRIVE SCHEMATI

(DVD PCB)

(HR-XVC1UJ/M)



NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE 。

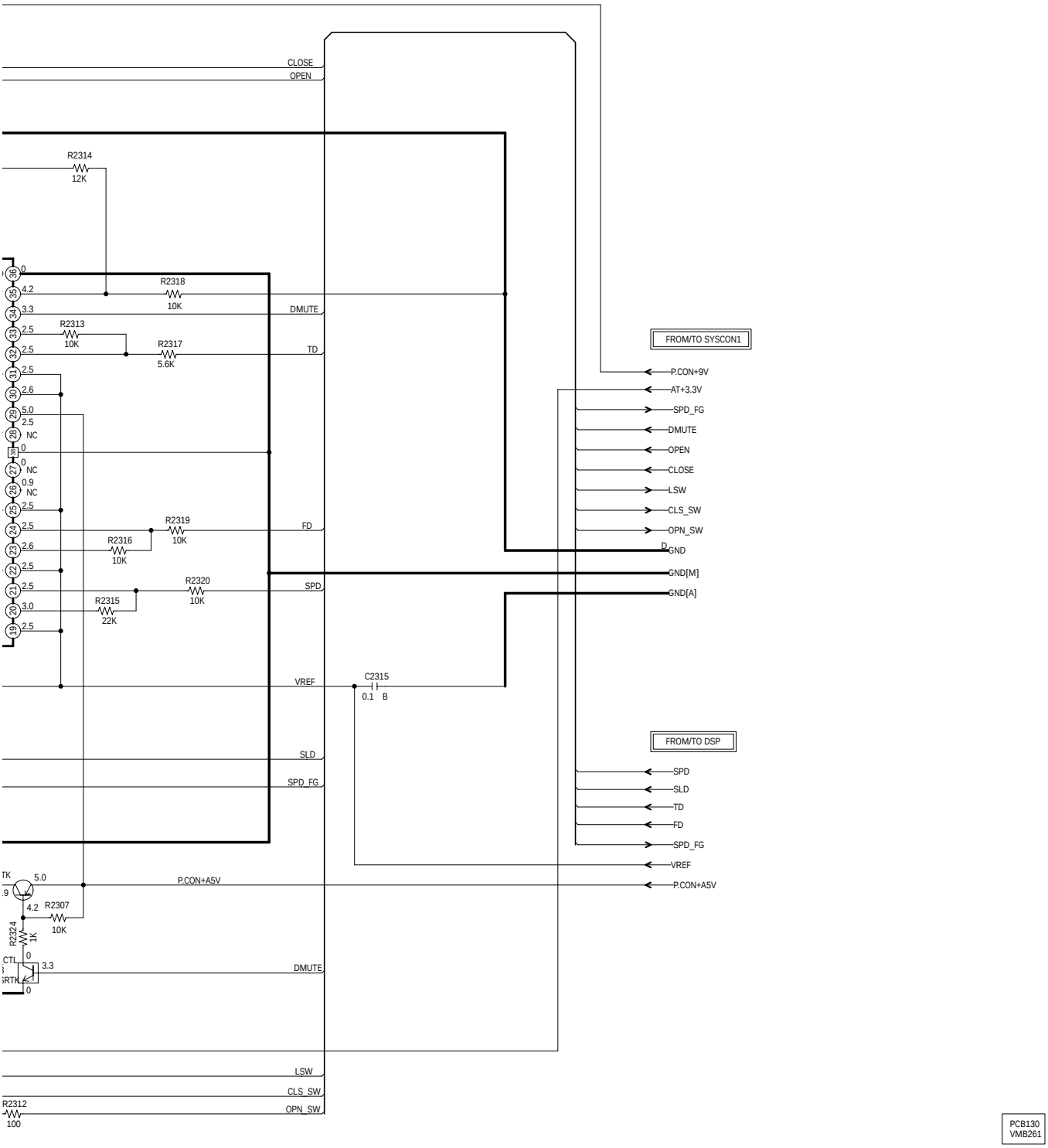
NOTE: THE DC VOLTAGE EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

Note : The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.

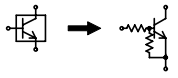
)RIVE SCHEMATIC DIAGRAM

(DVD PCB)

(HR-XVC1UJ/M)



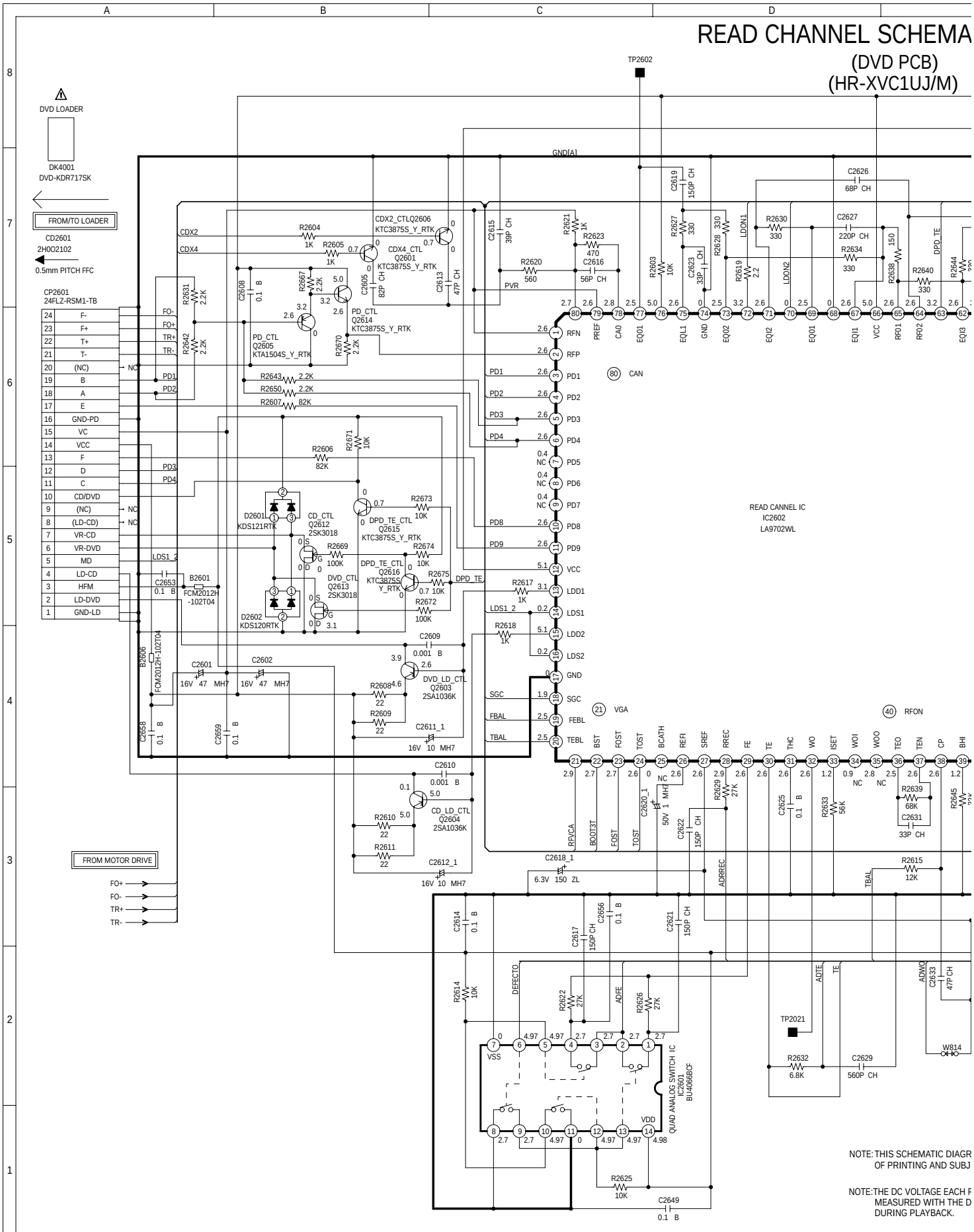
CAUTION: DIGITAL TRANSISTOR



DC VOLTAGE EACH PART WAS
ASURED WITH THE DIGITAL TESTER
RING PLAYBACK.

READ CHANNEL SCHEMA

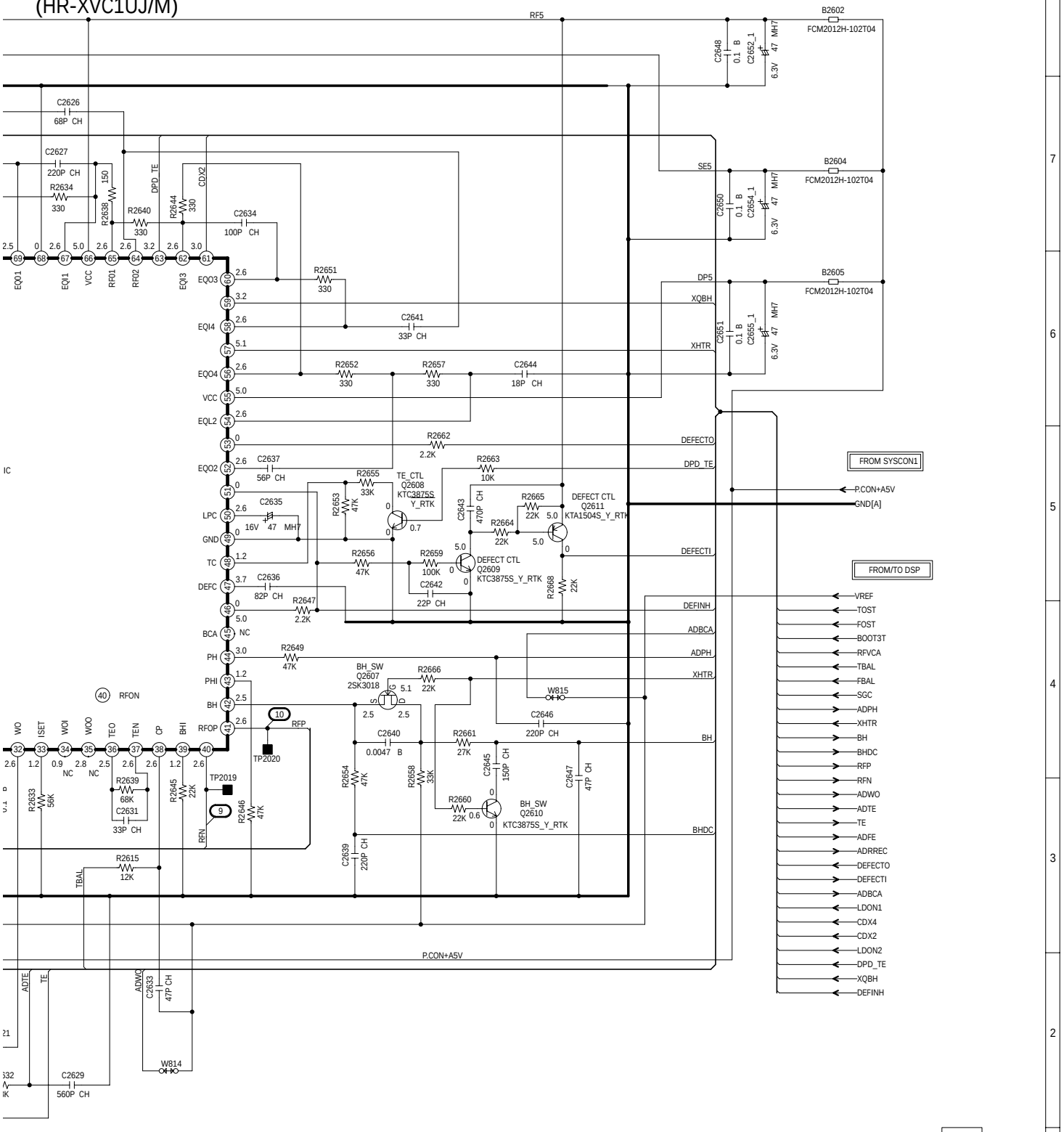
(DVD PCB)
(HR-XVC1UJ/M)



Note : The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.

ANNEL SCHEMATIC DIAGRAM

(DVD PCB)
(HR-XVC1UJ/M)



NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE。

NOTE: THE DC VOLTAGE EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

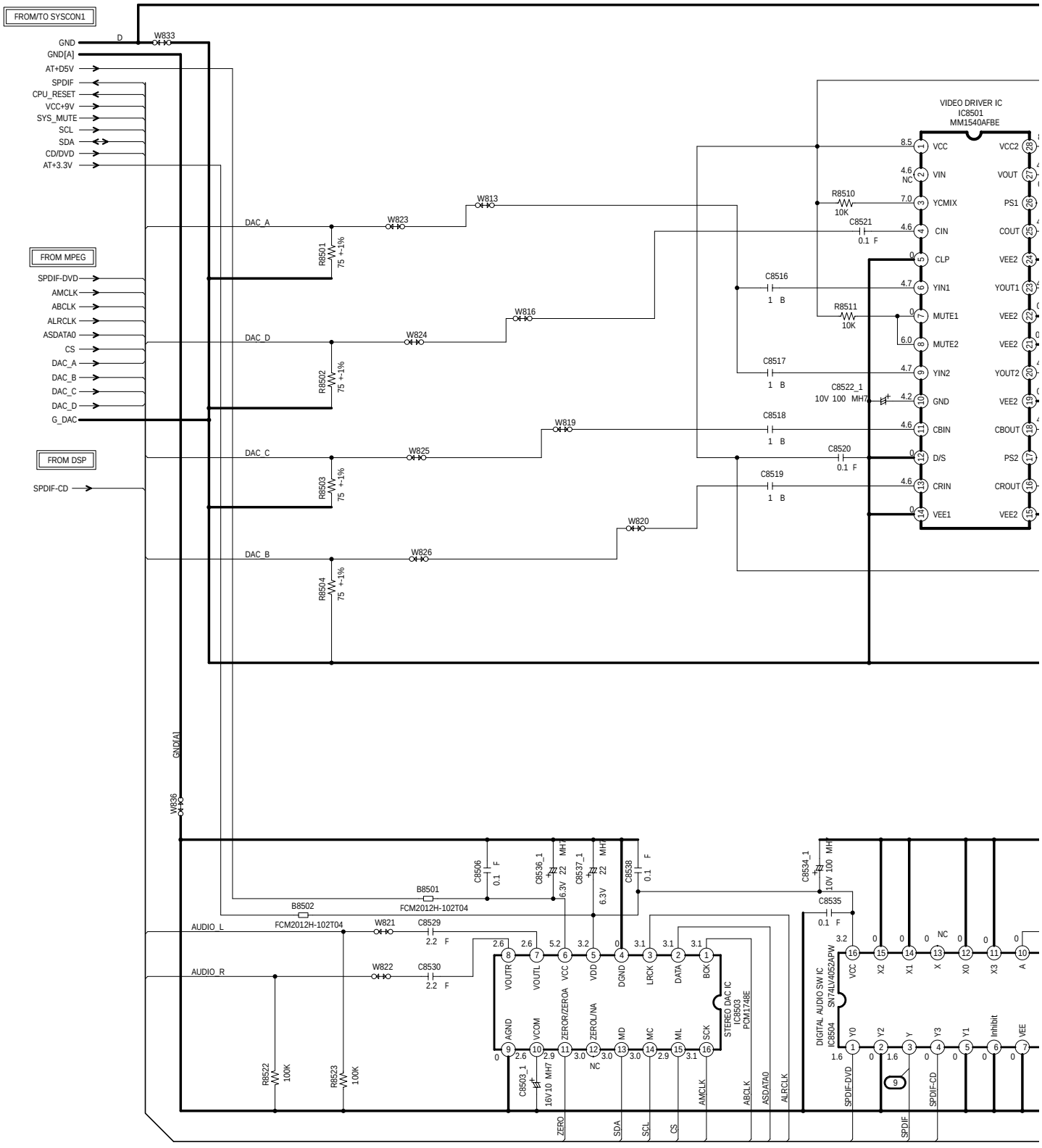
CAUTION: SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY,USE ONES DESCRIBED IN PARTS LIST ONLY 。

ATTENTION: LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES。

AUDIO/VIDEO SCHEMATIC

(DVD PCB)

(HR-XVC1UJ/M)



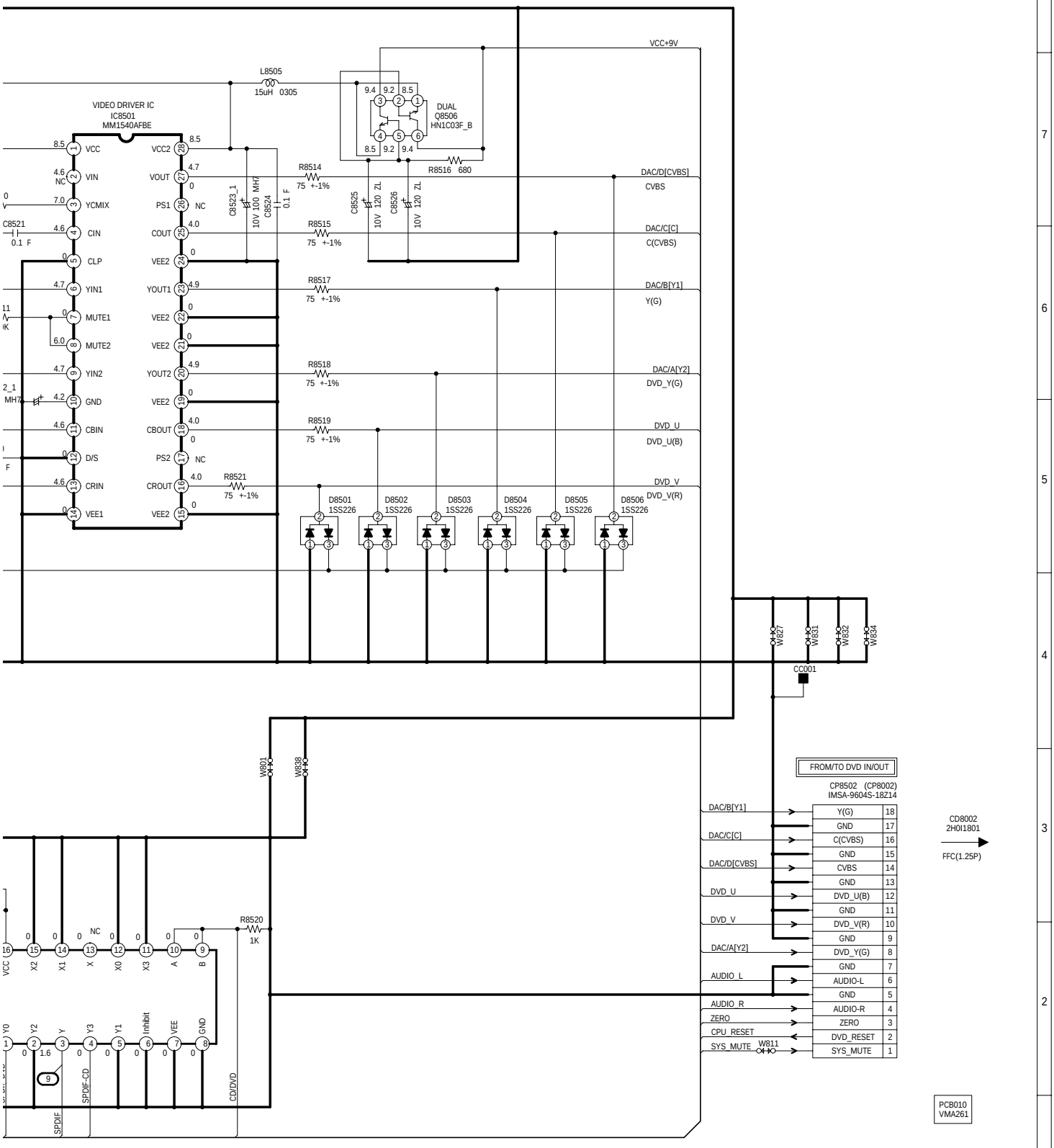
NOTE: THE DC VOLTAGE EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

NOTE: THIS SCHEMATIC DIAGR
OF PRINTING AND SUBJE

Note : The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.

)EO SCHEMATIC DIAGRAM

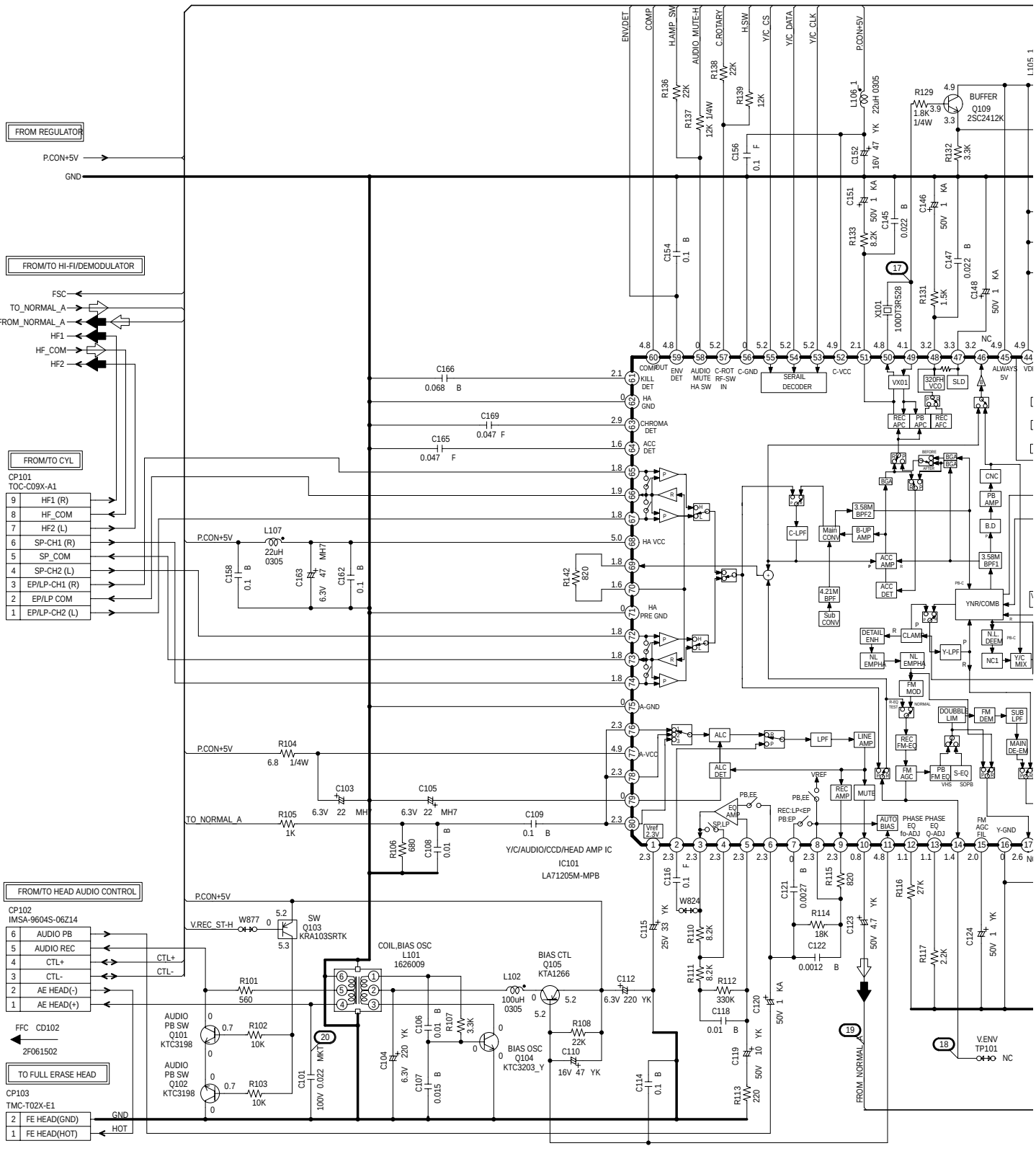
(DVD PCB)
(HR-XVC1UJ/M)



NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE 。

Y/C/AUDIO/CCD/HEAD AMP SC

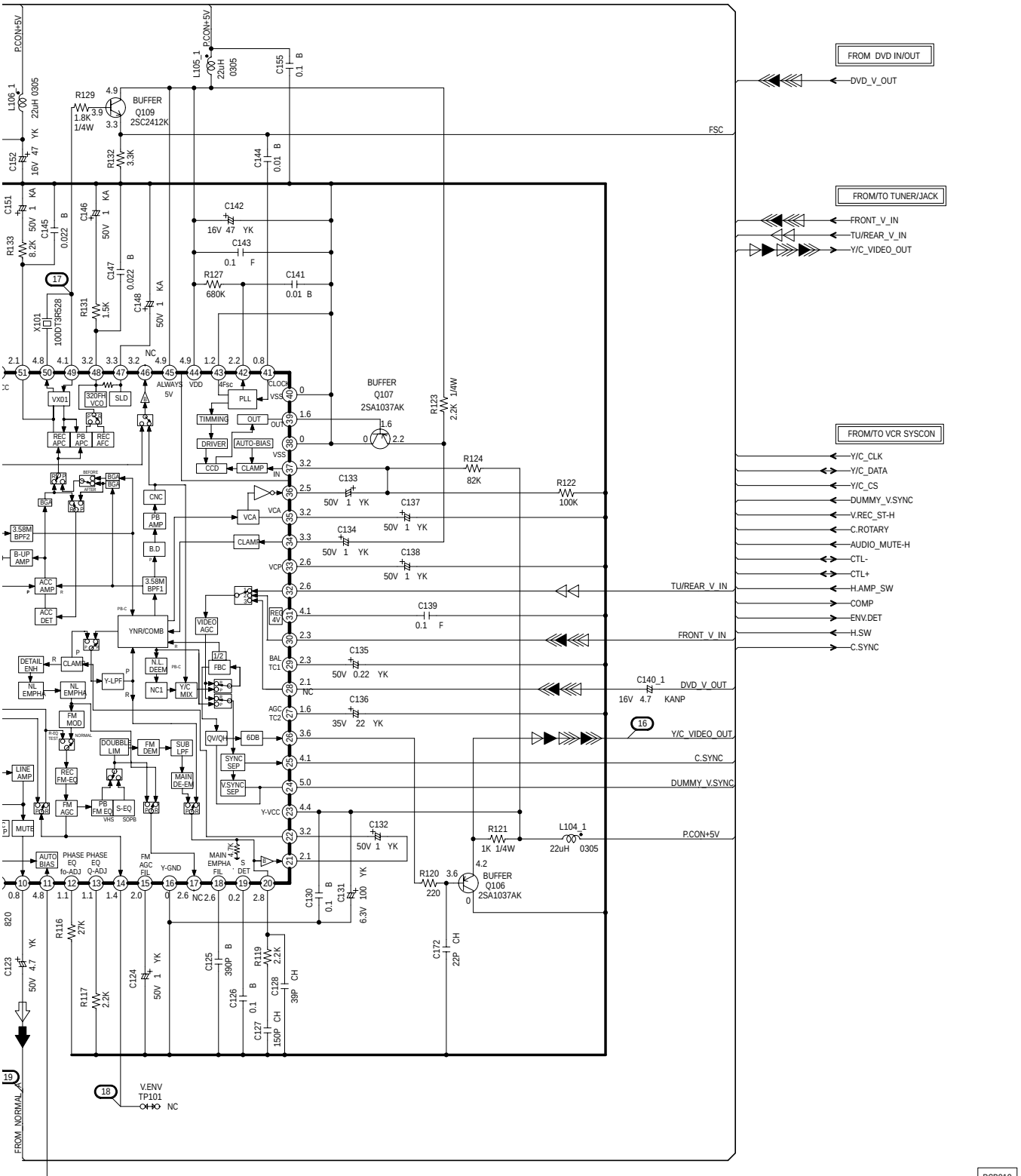
(VCR PCB) (HR-XVC1UJ/



Note : The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.

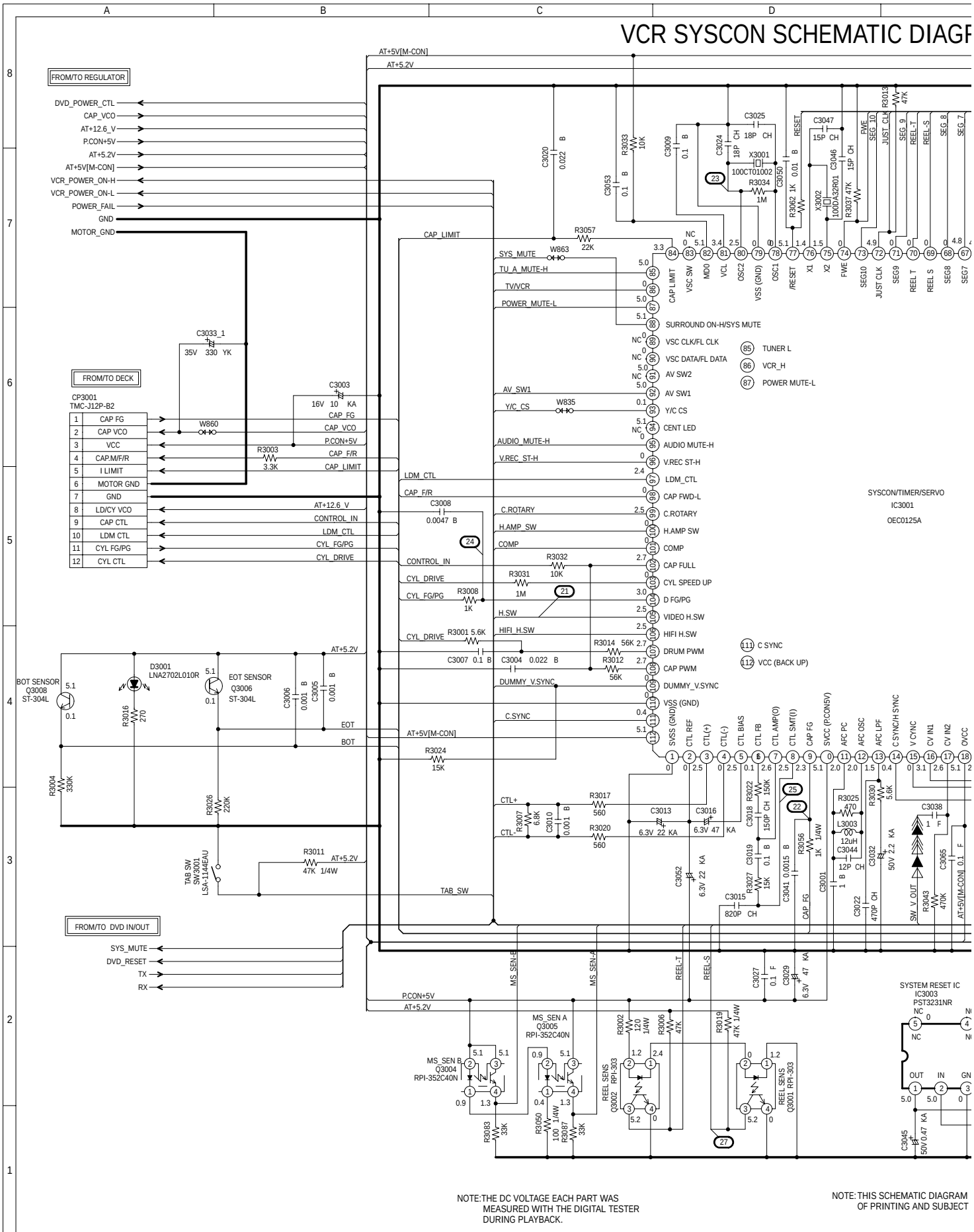
O/HEAD AMP SCHEMATIC DIAGRAM

PCB) (HR-XVC1UJ/M)



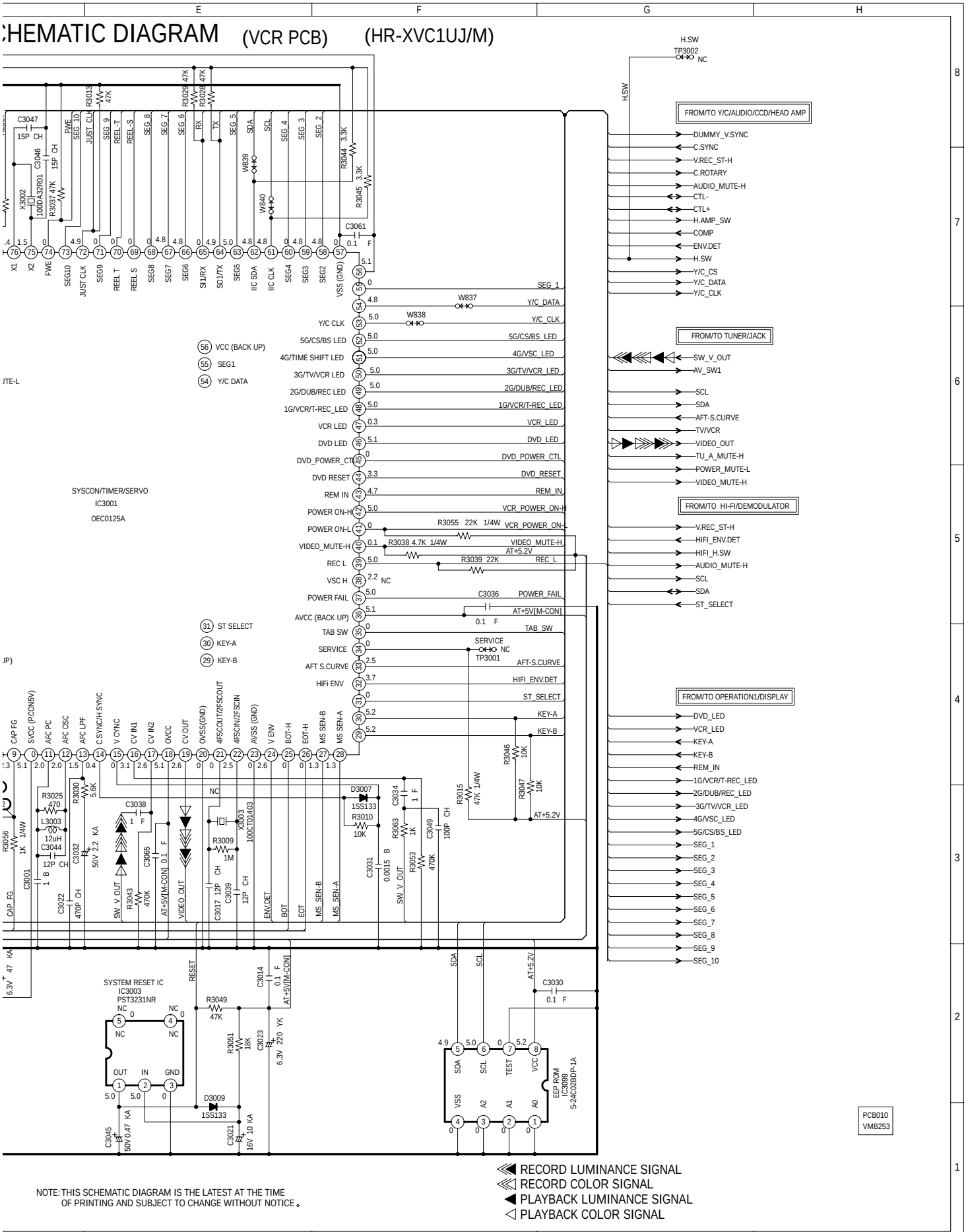
: DC VOLTAGE EACH PART WAS
ASURED WITH THE DIGITAL TESTER
RING PLAYBACK.

VCR SYSCON SCHEMATIC DIAGR



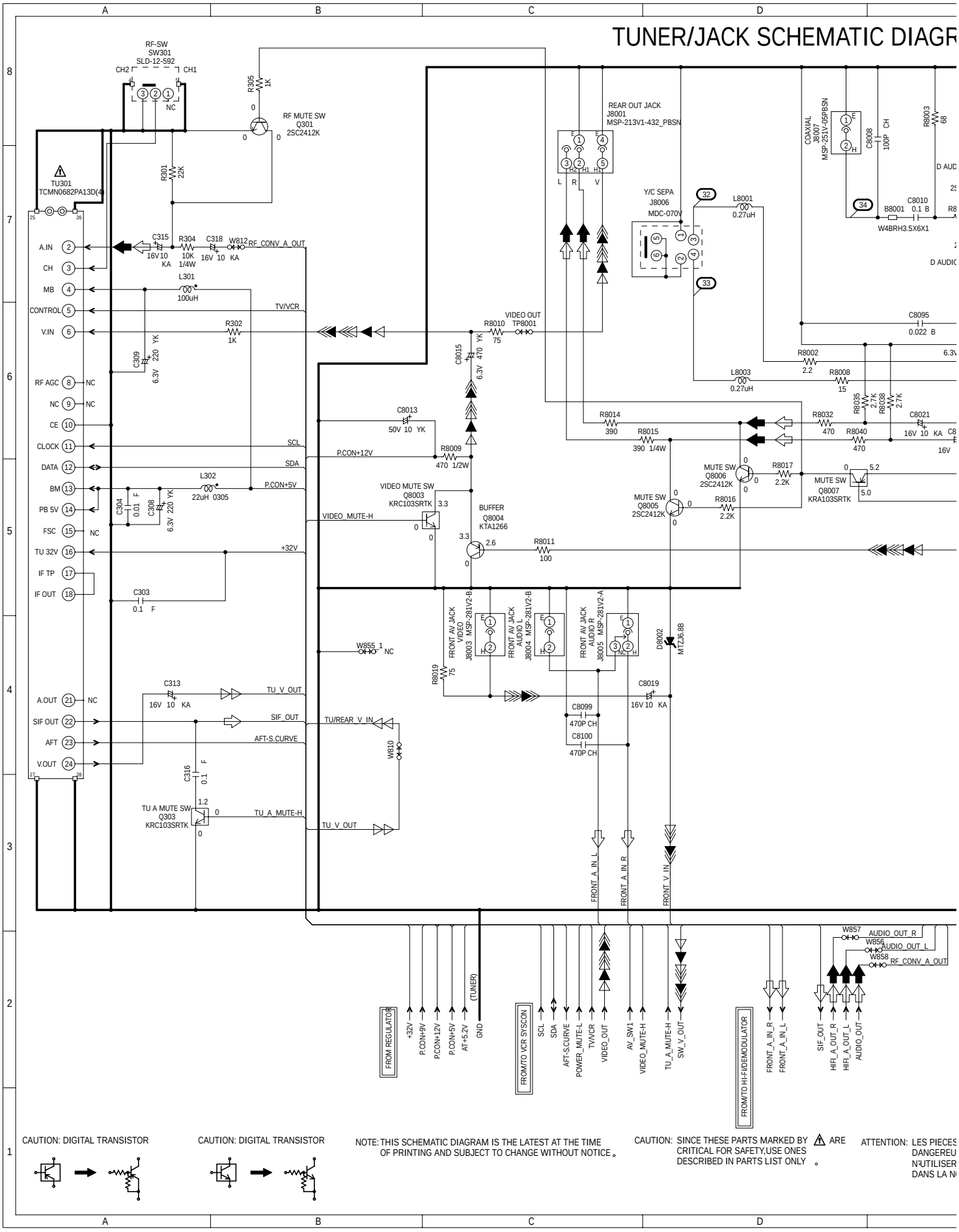
Note : The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.

CHEMATIC DIAGRAM (VCR PCB) (HR-XVC1UJ/M)



NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE。

TUNER/JACK SCHEMATIC DIAGR



CAUTION: DIGITAL TRANSISTOR

CAUTION: DIGITAL TRANSISTOR

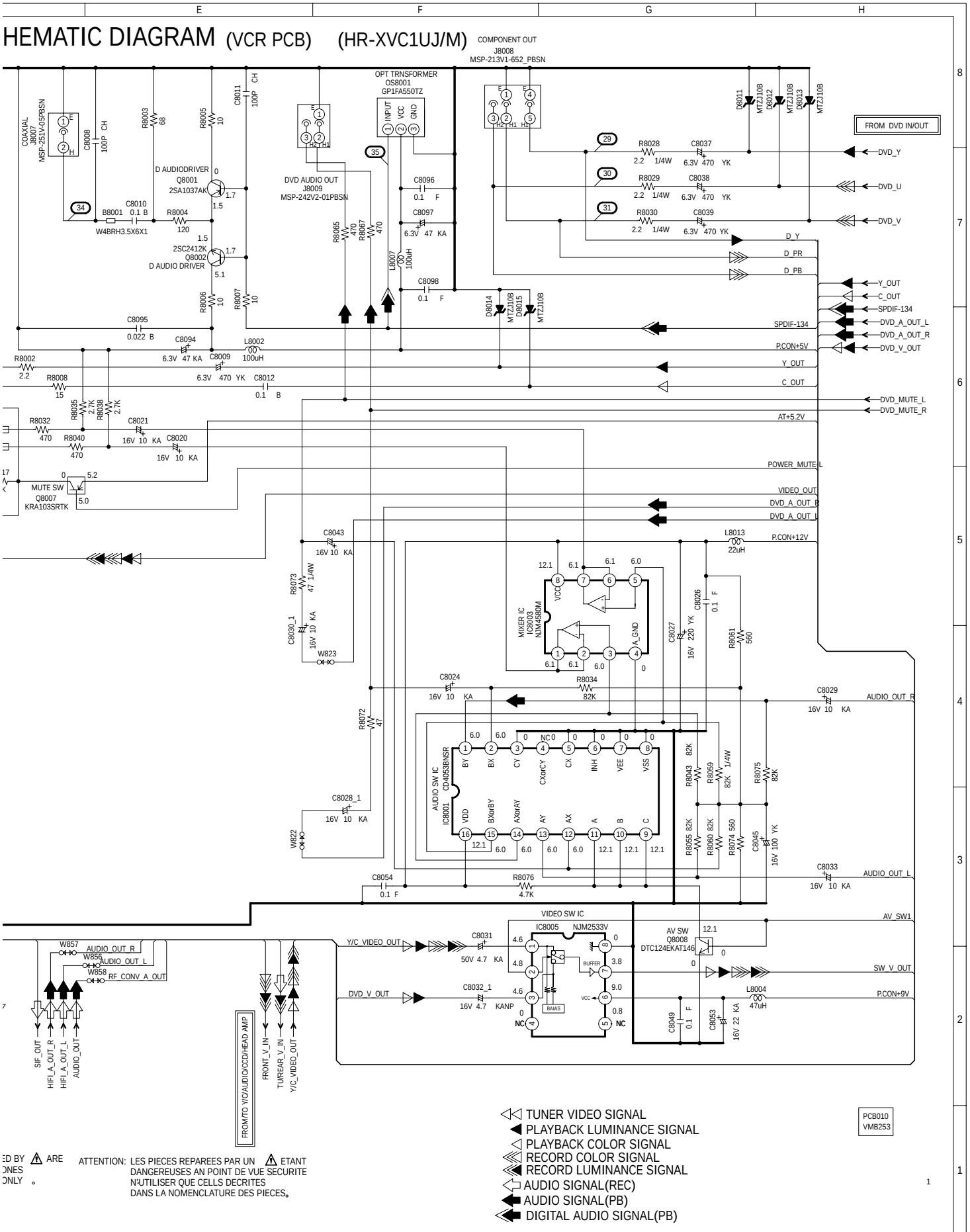
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE。

CAUTION: SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY,USE ONES DESCRIBED IN PARTS LIST ONLY 。

ATTENTION: LES PIECES DANGEREU N'UTILISER DANS LA N

Note : The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.

HEMATIC DIAGRAM (VCR PCB) (HR-XVC1UJ/M)

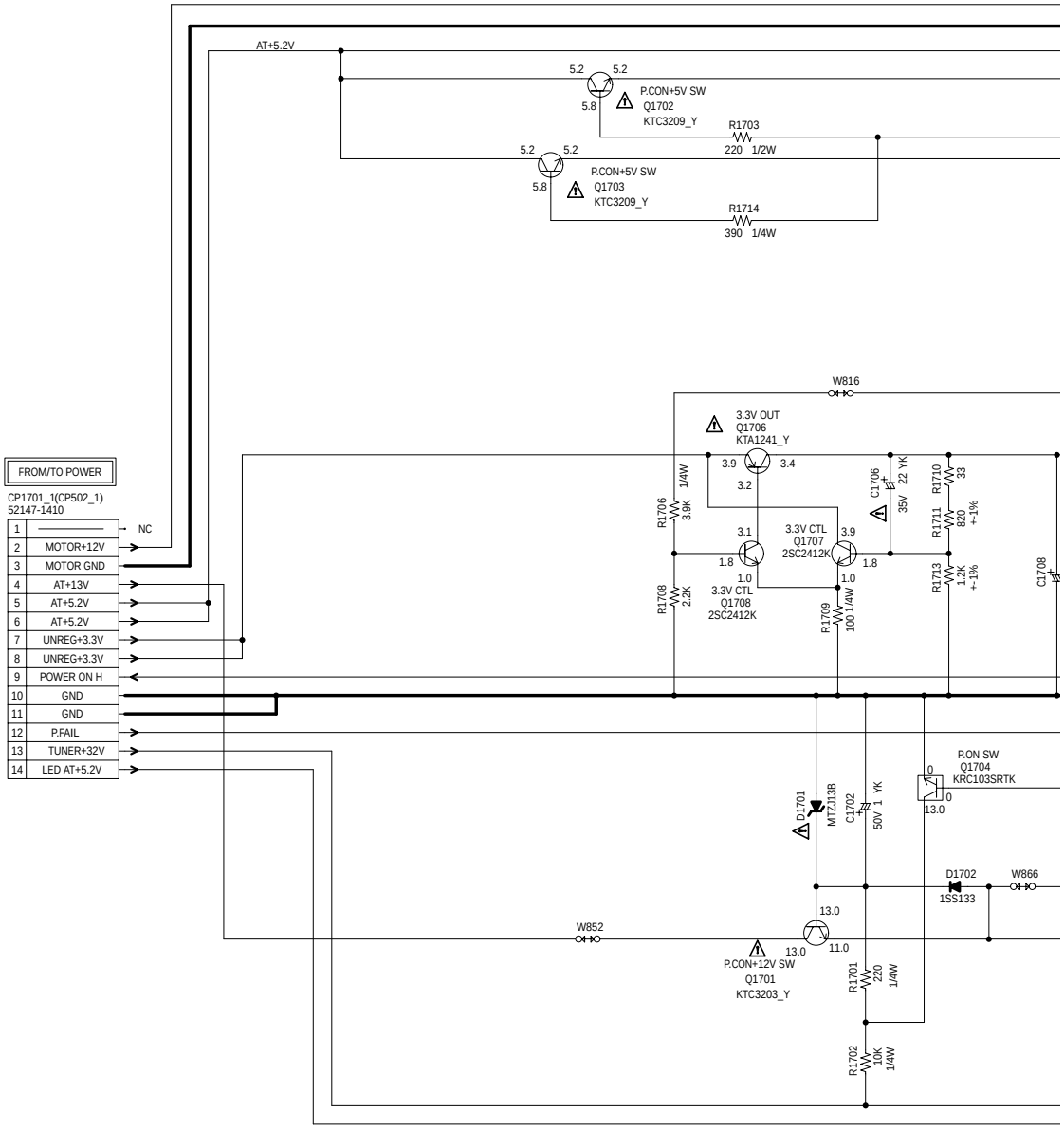


ATTENTION: LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES。

REGULATOR SCHEMATIC

(VCR PCB)

(HR-XVC1UJ/M)



NOTE: THE DC VOLTAGE EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE。

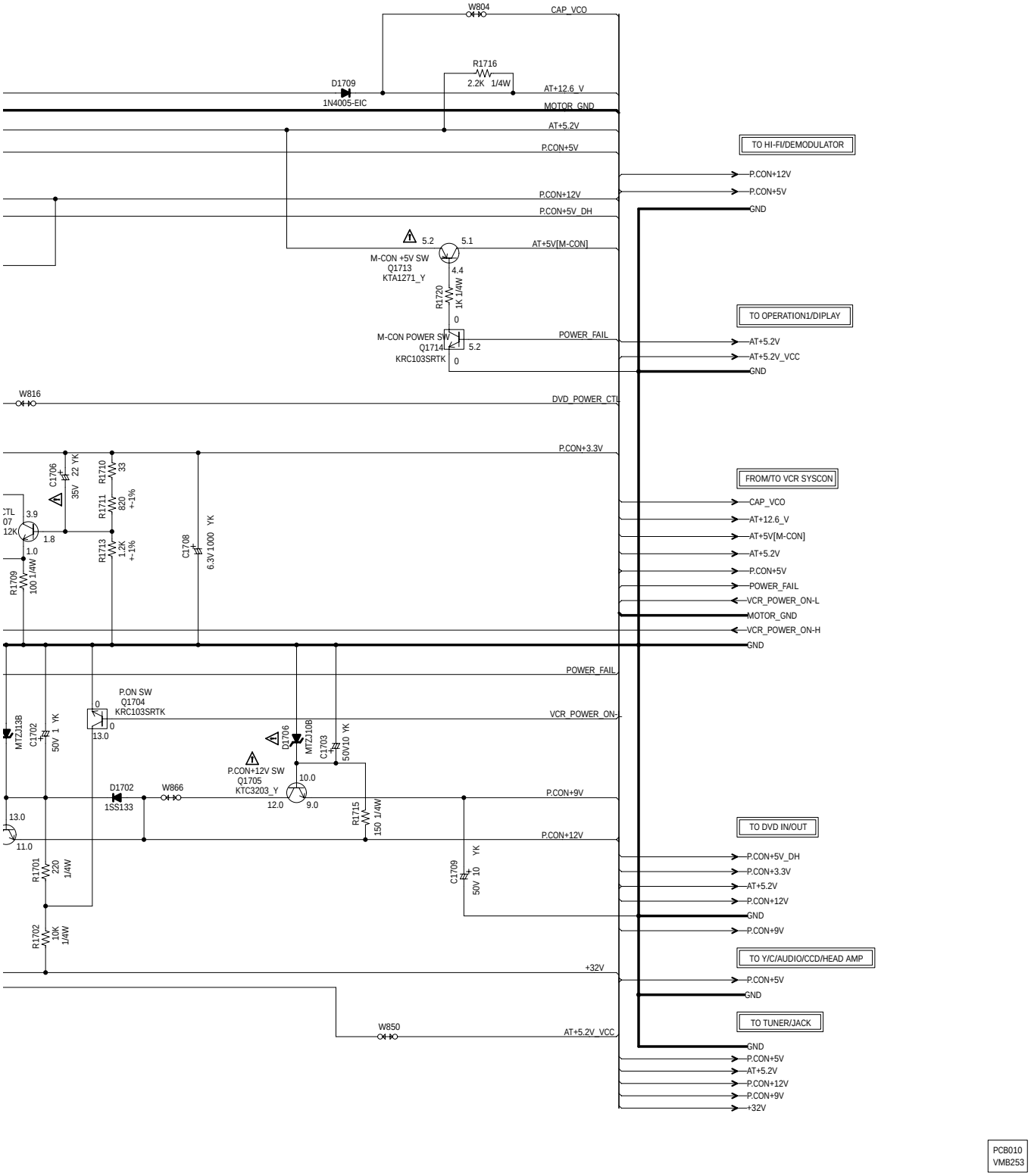
ATTENTION: LES PIECES REPAREES PAR UN
DANGEREUSES AN POINT DE VUE S
N'UTILISER QUE CELLS DECRITES
DANS LA NOMENCLATURE DES PIE

Note : The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.

TOR SCHEMATIC DIAGRAM

(VCR PCB)

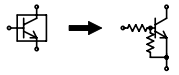
(HR-XVC1UJ/M)



:NTION: LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE NUTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES。

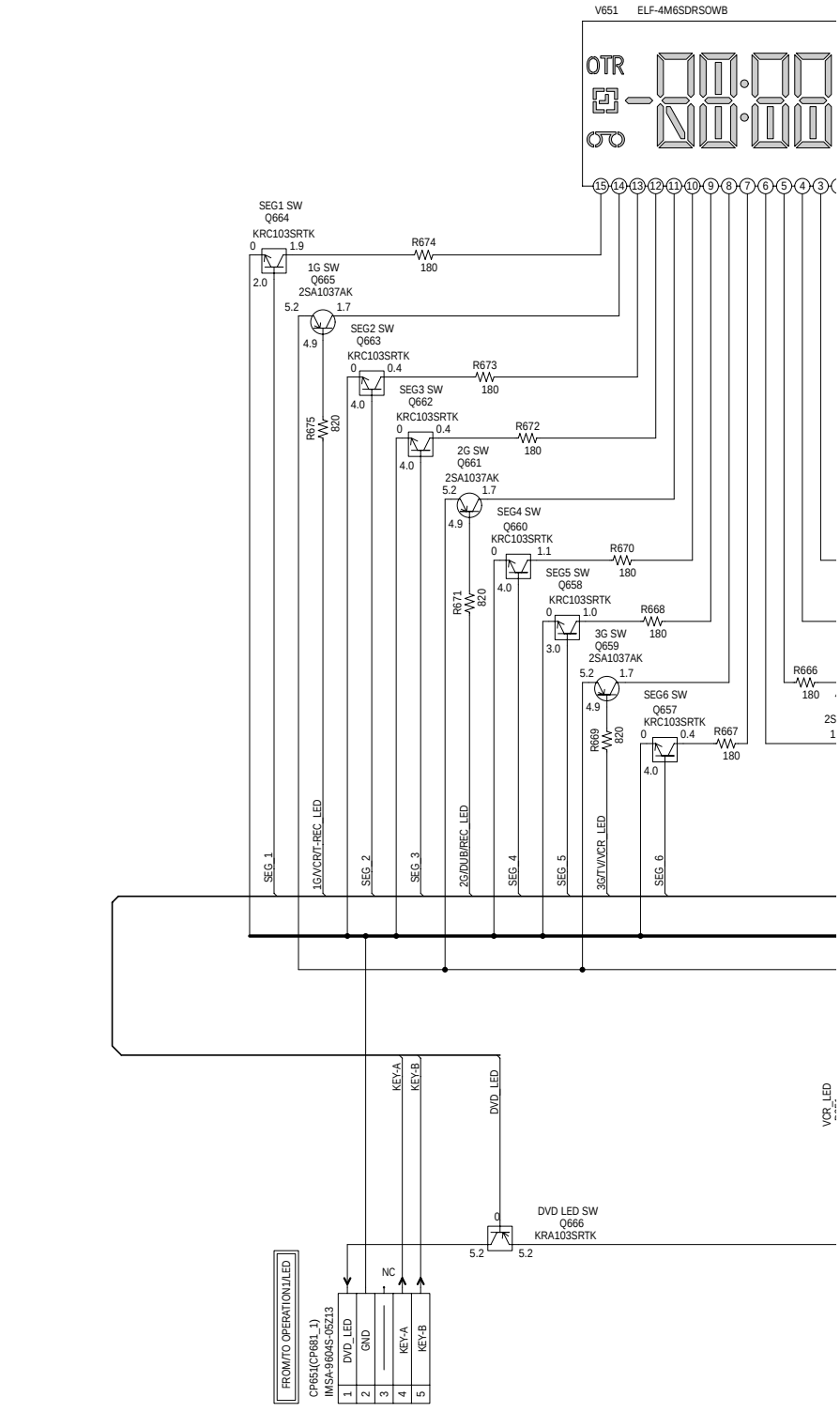
CAUTION: SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY,USE ONES DESCRIBED IN PARTS LIST ONLY 。

CAUTION: DIGITAL TRANSISTOR



OPERATION/DISPLAY SCHEMA

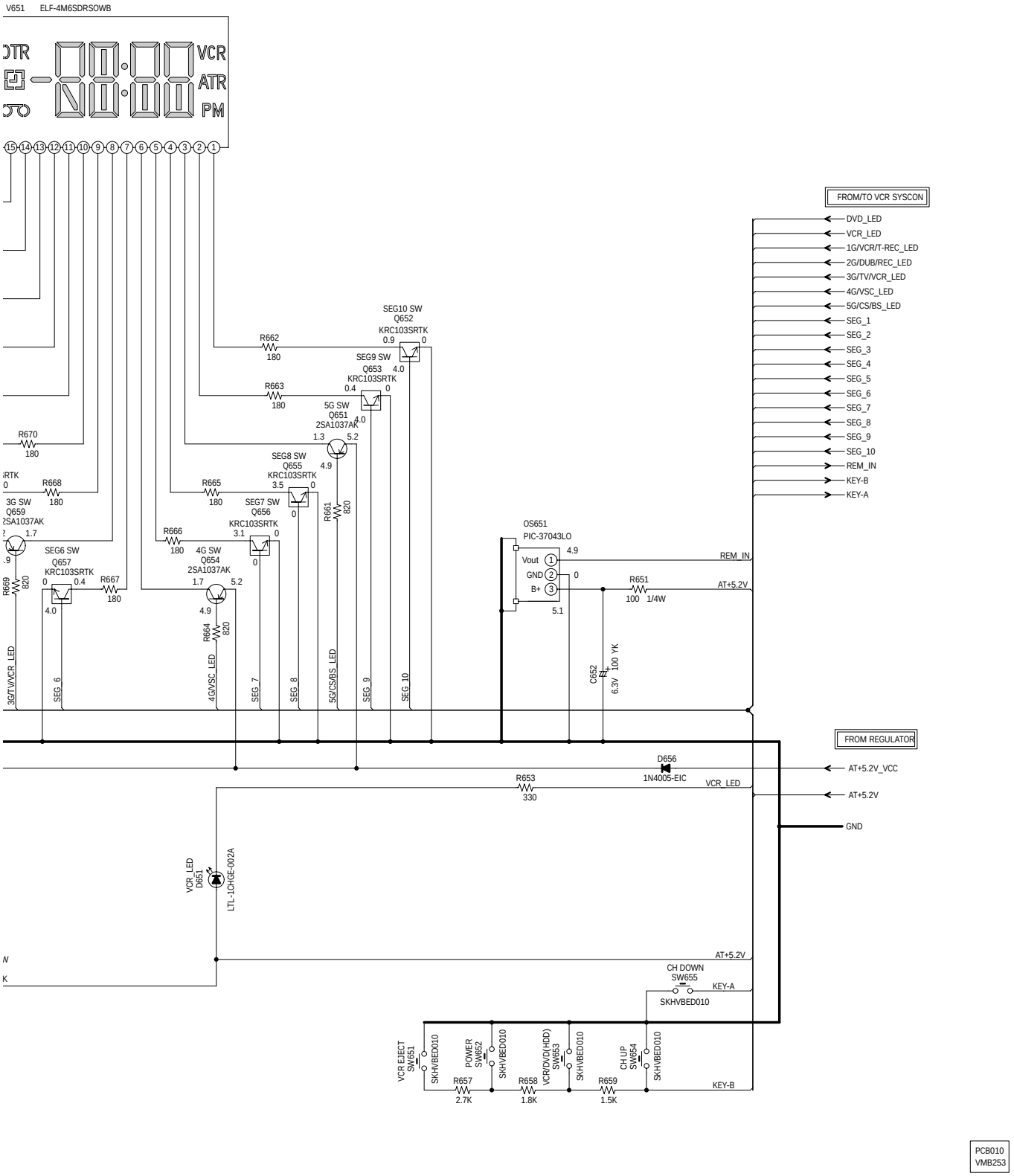
(VCR PCB) (HR-XVC1UJ/



Note : The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.

SPLAY SCHEMATIC DIAGRAM

CB) (HR-XVC1UJ/M)

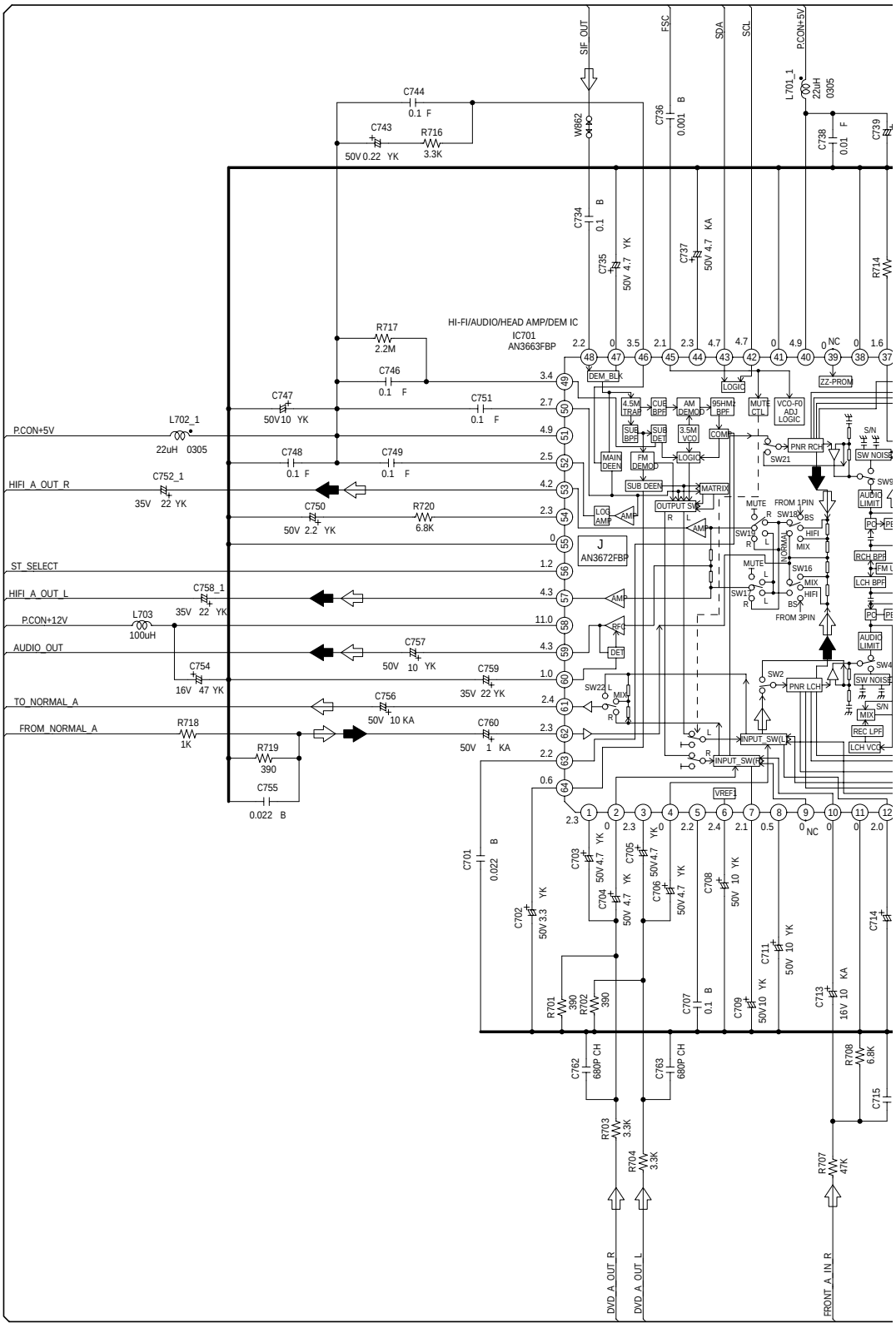


NOTE:THE DC VOLTAGE EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE。

HI-FI/DEMODULATOR SCHEMA

(VCR PCB) (HR-XVC1



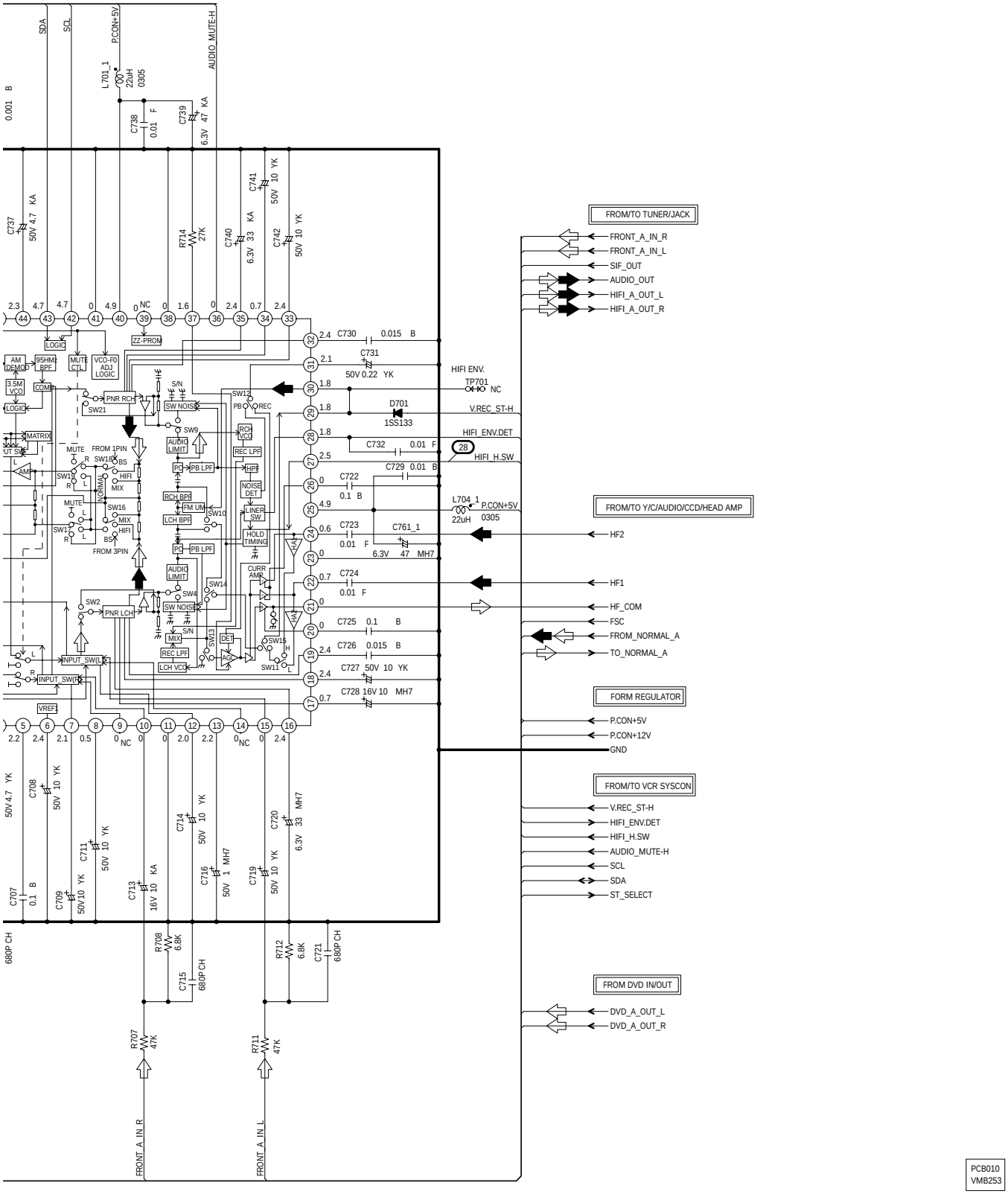
NOTE:THE DC VOLTAGE EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST OF PRINTING AND SUBJECT TO CHANGE W

Note : The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.

JLATOR SCHEMATIC DIAGRAM

R PCB) (HR-XVC1UJ/M)

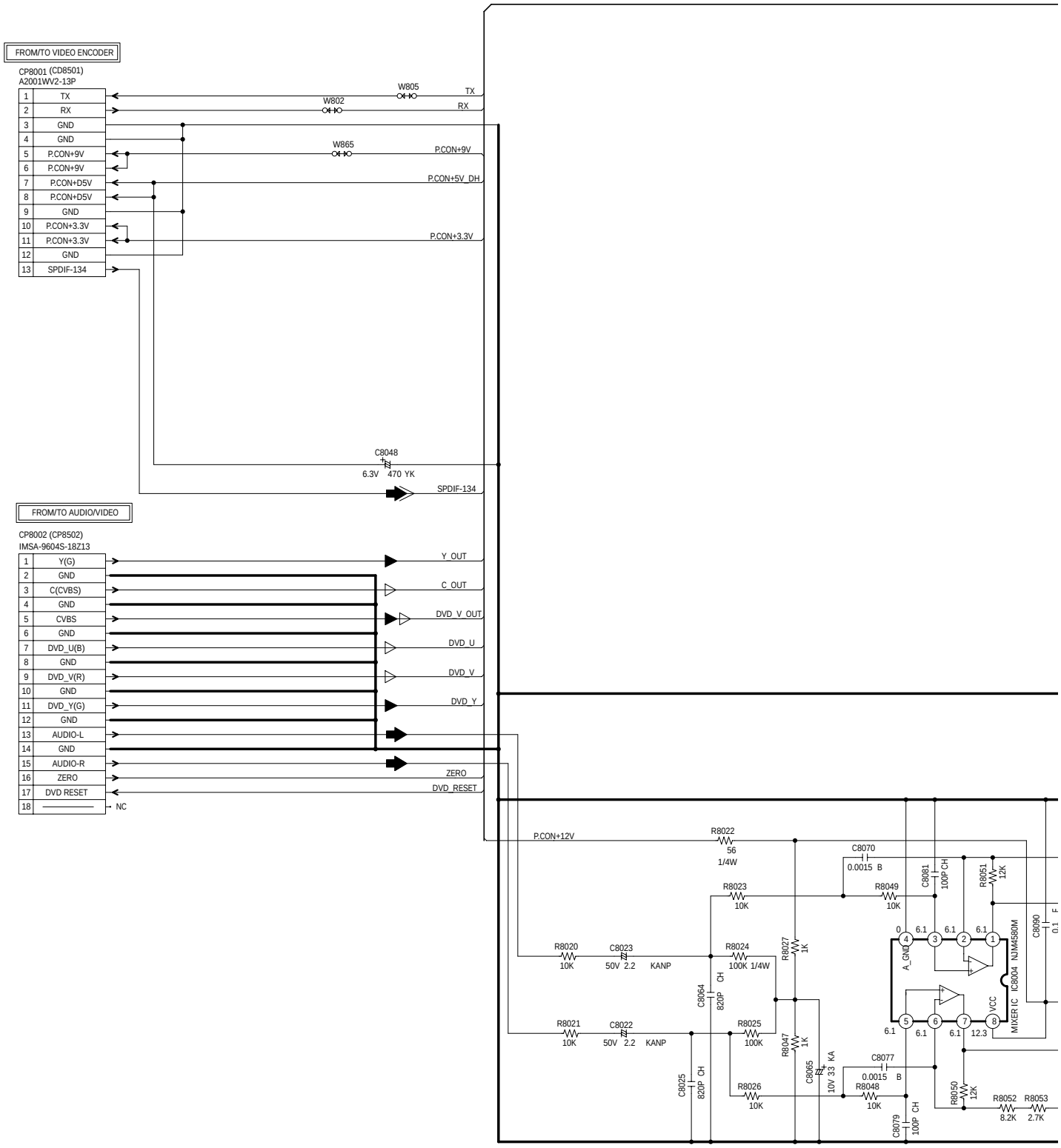


THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE。

⇦ AUDIO SIGNAL(REC)
⬅ AUDIO SIGNAL(PB)

DVD IN/OUT SCHEMATIC D

(VCR PCB) (HR-XVC1U



NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE。

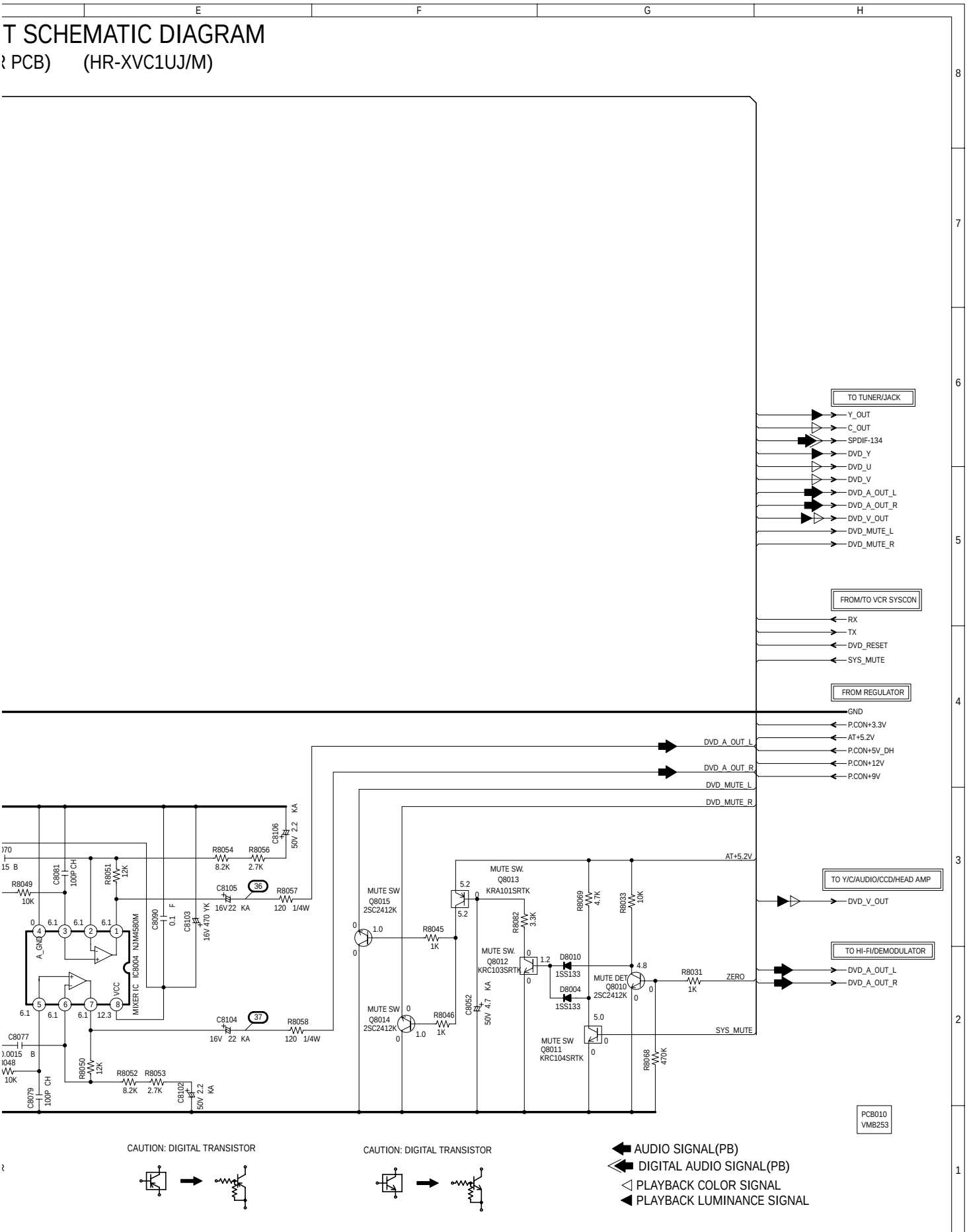
NOTE: THE DC VOLTAGE EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

CAUTION: D

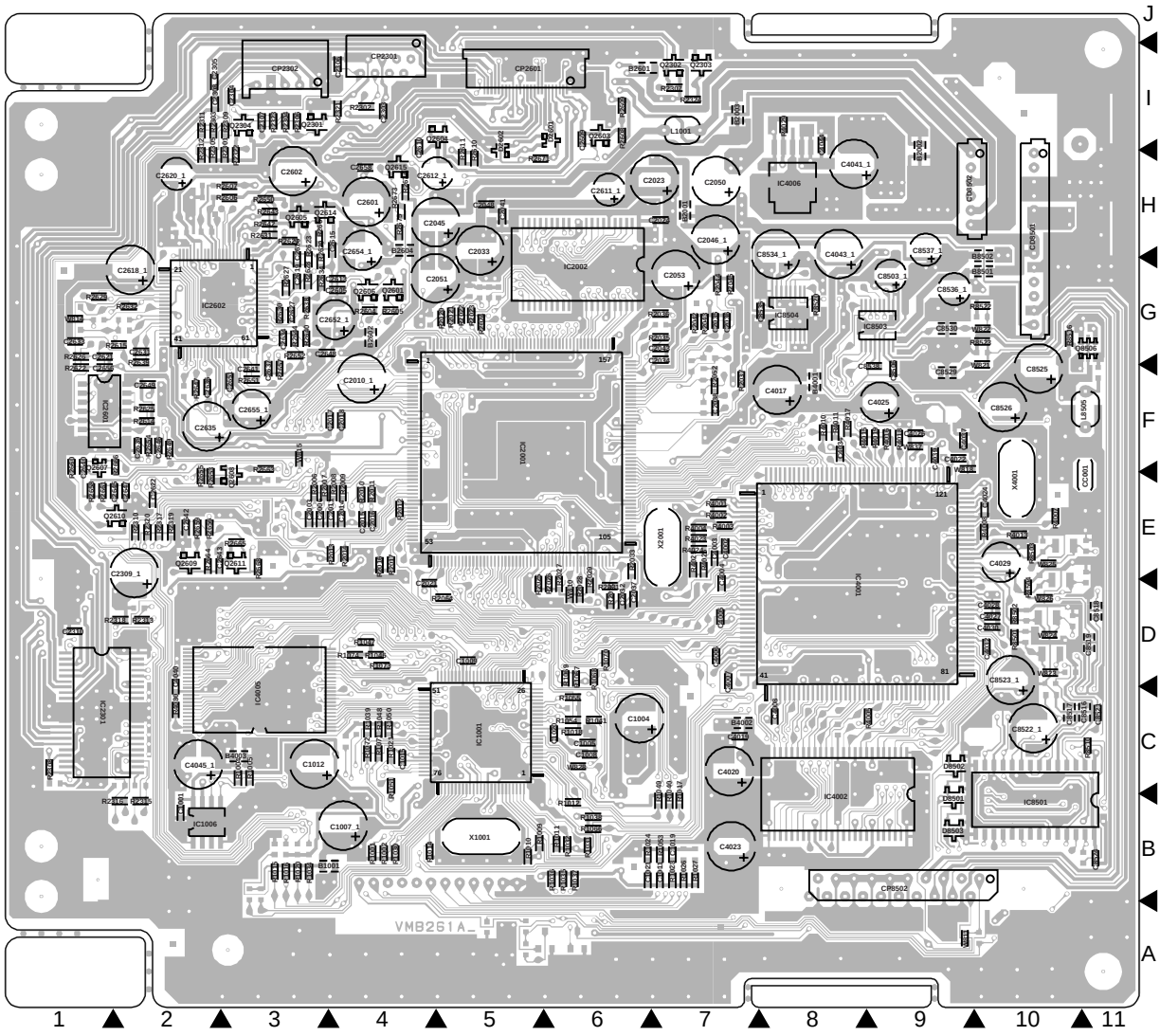
Note : The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.

T SCHEMATIC DIAGRAM

ʁ PCB) (HR-XVC1UJ/M)



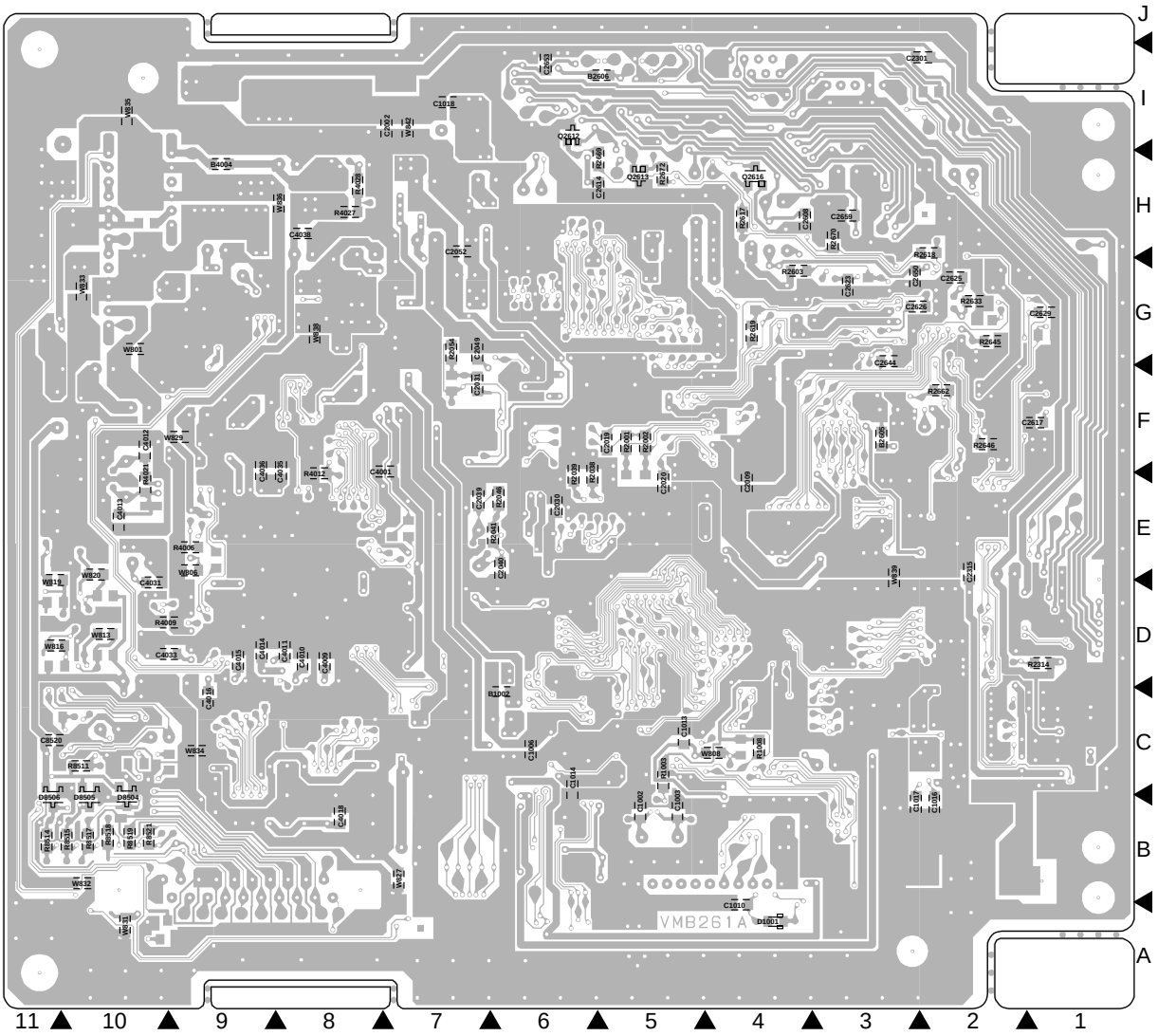
PRINTED CIRCUIT BOARDS
DVD (TOP SIDE)



COMPONENT PARTS LOCATION GUIDE <DVD> VMB261A

REF.NO.	LOCATION
CAPACITOR	
C1001	2B
C1002	5B
C1003	5B
C1004	6C
C1005	6C
C1006	6C
C1007_1	4B
C1008	6C
C1009	5D
C1010	4A
C1011	7B
C1012	3C
C1013	5C
C1014	6C
C1015	4C
C1016	2B
C1017	3B
C1018	7I
C1019	7B
C1020	6C
C1021	6B
C2002	7I
C2003	3E
C2006	3E
C2009	4E
C2010_1	4F
C2011	4E
C2014	4E
C2015	4E
C2016	4E
C2017	4F
C2018	4F
C2019	5F
C2020	5E
C2021	4D
C2023	7H
C2024	7H
C2030	6E
C2031	7F
C2032	6D
C2033	5H
C2034	7G
C2035	7G
C2036	7G
C2037	6D
C2038	7F
C2039	7E
C2040	6E
C2041	5H
C2043	7G
C2045	5H
C2046_1	7H
C2048	5H
C2049	7G
C2050	7H
C2051	5G
C2052	7H
C2053	7G
C2301	2I
C2303	4I
C2304	3I
C2305	2I
C2306	4I
C2307	3I
C2308	2I
C2309_1	2E
C2310	1D
C2315	2E
C2601	4H
C2602	3H
C2605	4G
C2608	4H
C2609	6I
C2610	4I
C2611_1	6H
C2612_1	5H
C2613	4G
C2614	5H
C2615	4H
C2616	3G
C2617	1F
C2618_1	2G
C2619	3G
C2620_1	2H
C2621	1G
C2622	2E
C2623	3G
C2625	2G
C2626	3G
C2627	3G
C2629	1G
C2631	2G
C2633	1G
C2634	3G
C2635	2F
C2636	2F
C2637	3F
C2639	2F
C2640	1F
C2641	3F
C2642	2E
C2643	2E
C2644	3G
C2645	2E
C2646	2F
C2647	2E
C2648	3G
C2649	2F
C2650	3G
C2651	3F
C2652_1	4G
C2653	6I
C2654_1	4H
C2655_1	3F
C2656	1F
C2658	4H
C2659	3H
C4001	7F
C4002	7E
C4003	7E
C4004	7D
C4005	7D
C4006	7D
C4007	7D
C4008	8C
C4009	8D
C4010	8D
C4011	8D
C4012	10F
C4013	10E
C4014	9D
C4015	9D
C4016	9C
C4017	8F
C4018	8B
C4019	7C
C4020	7C
C4022	9F
C4023	7B
C4024	10E
C4025	9F
C4026	9F
C4027	10D
C4028	10D
C4029	10E
C4030	10D
C4031	10D
C4032	10D
C4033	9D
C4034	8F
C4035	8F
C4036	9F
C4037	9F
C4038	8H
C4039	9F
C4040	2C
C4041_1	8H
C4043_1	8H
C4044	8I
C4045_1	2C
C8503_1	9G
C8506	9F
C8516	11C
C8517	10C
C8518	11D
C8519	11D
C8520	11C
C8521	11C
C8522_1	10C
C8523_1	10D
C8524	11B
C8525	10F
C8526	10F
C8529	9F
C8530	9G
C8534_1	8H
C8535	8G
C8536_1	9G
C8537_1	9H
C8538	9F
CONNECTOR	
CP2301	4I
CP2302	3I
CP2601	5I
CP8502	10B
DIODE	
D1001	4A
D2601	6I
D2602	5H
D8501	9B
D8502	9C
D8503	9B
D8504	10B
D8505	10B
D8506	11B
IC	
IC1001	5C
IC1006	2B
IC2001	5F
IC2002	6G
IC2301	1C
IC2601	1F
IC2602	2G
IC4001	8D
IC4002	8B
IC4005	3C
IC4006	8H
IC8501	10B
IC8503	9G
IC8504	8G
COIL	
L1001	7I
L8505	11F
TRANSISTOR	
Q2301	3I
Q2302	7I
Q2303	7I
Q2304	3I
Q2601	4G
Q2603	6I
Q2604	5I
Q2605	3H
Q2606	4G
Q2607	1F
Q2608	3E
Q2609	2E
Q2610	2E
Q2611	3E
Q2612	6I
Q2613	5H
Q2614	3H
Q2615	4H
Q2616	4H
Q8506	11G
RESISTOR	
R1001	4B
R1002	4B
R1003	5C
R1004	3C
R1005	3C
R1008	4C
R1009	5B
R1010	5B
R1011	6B
R1012	6B
R1014	4B
R1015	3B
R1016	3B
R1017	7B
R1018	6C
R1020	3B
R1021	4C
R1023	7B
R1024	6B
R1026	7B
R1027	7B
R1030	4B
R1031	6B
R1032	6B
R1034	3B
R1035	6B
R1036	6B
R1037	6B
R1038	6B
R1039	4C
R1040	7B
R1041	6C
R1046	4D
R1047	4D
R1048	4C
R1049	7B
R1050	4C
R1051	4C
R1053	7B
R1054	6C
R1055	6C
R1066	6B
R1067	6D
R1068	6D
R1069	6D
R1070	6D
R1071	4C
R1072	4C
R1073	4D
R1074	4D
R2001	5F
R2002	5F
R2006	3E
R2007	3E
R2008	4E
R2009	4E
R2010	4E
R2011	4E
R2012	4E
R2013	4E
R2014	4E
R2016	4E
R2017	4E
R2020	5G
R2021	5G
R2022	5G
R2023	5G
R2024	5G
R2025	5D
R2026	6D
R2027	6D
R2028	6D
R2029	6D
R2030	6D
R2031	6D
R2033	6E
R2035	7G
R2036	7G
R2037	7F
R2038	6E
R2039	6E
R2041	6E
R2042	7G
R2043	7G
R2044	7G
R2045	7G
R2046	6E
R2052	7F
R2054	7G
R2064	5D
R2301	3H
R2302	4I
R2303	2I
R2304	3I
R2305	2H
R2306	3I
R2307	7I
R2308	1C
R2309	3I
R2310	2E

PRINTED CIRCUIT BOARDS
DVD (BOTTOM SIDE)

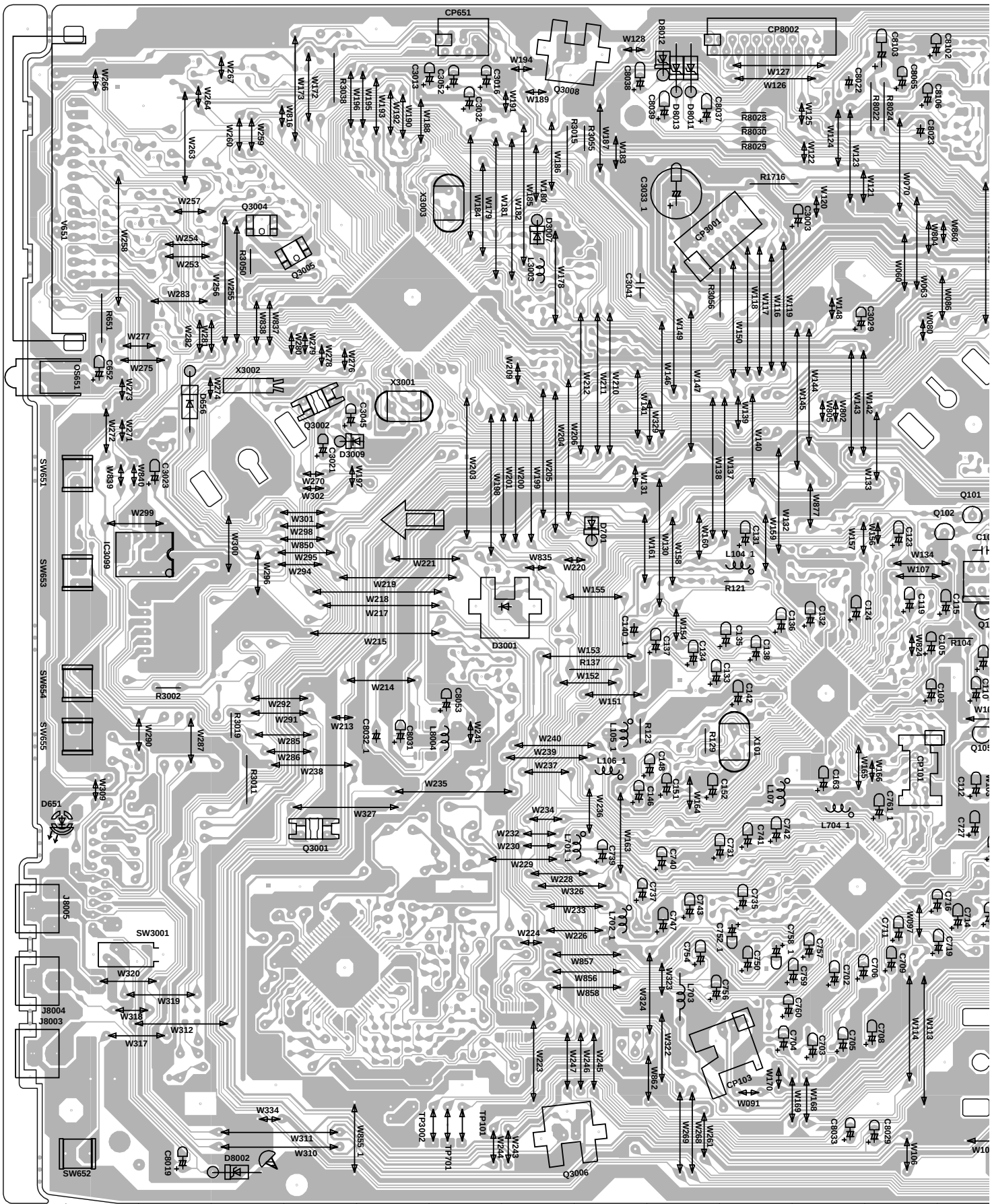


REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
R2311	2I	R2631	3H	R2674	4H	R8517	10B	TP4006	8C
R2312	2H	R2632	2G	R2675	4H	R8518	10B	TP4007	9F
R2313	2D	R2633	2G	R4001	7E	R8519	10B	TP4008	9E
R2314	1D	R2634	3G	R4002	7E	R8520	8G		
R2315	2B	R2638	3G	R4003	7E	R8521	10B	**OTHER**	
R2316	2B	R2639	2G	R4004	7E	R8522	10G	B1002	6C
R2317	2E	R2640	3G	R4005	9C	R8523	10G	B2001	7H
R2318	2D	R2642	3H	R4006	9E			B2002	9H
R2319	2E	R2643	3H	R4007	10E	**TEST POINT**		B2003	7I
R2320	2E	R2644	3G	R4008	10E	TP1001	3B	B2601	6I
R2321	4I	R2645	2G	R4009	9D	TP1002	3B	B2602	4G
R2322	3H	R2646	2F	R4010	8F	TP1003	3B	B2604	4H
R2323	3I	R2647	2F	R4011	8F	TP1004	3B	B2605	3F
R2324	7I	R2649	2F	R4012	8E	TP1005	6B	B2606	5I
R2603	4G	R2650	3H	R4013	10E	TP1006	5B	B4001	8F
R2604	4G	R2651	3F	R4015	8F	TP2001	4G	B4002	7C
R2605	4G	R2652	3G	R4016	9F	TP2002	5F	B4003	3C
R2606	3H	R2653	2E	R4017	8F	TP2003	4E	B4004	9H
R2607	3H	R2654	2F	R4018	9F	TP2004	5F	B8501	10G
R2608	6I	R2655	2E	R4019	9F	TP2005	4E	B8502	10H
R2609	6I	R2656	2E	R4021	10E	TP2006	5E	CC001	11E
R2610	5H	R2657	3F	R4023	7E	TP2007	5E	CD8501	10H
R2611	5H	R2658	1E	R4024	7E	TP2008	6E	CD8502	9H
R2614	2F	R2659	2E	R4025	7E	TP2009	6E	JG1002	6C
R2615	2G	R2660	1F	R4026	7E	TP2010	6E	JG1004	5D
R2617	4H	R2661	1E	R4027	8H	TP2011	6E	X1001	5B
R2618	2H	R2662	2F	R4028	8H	TP2012	6D	X2001	7E
R2619	4G	R2663	3F	R4029	8I	TP2013	6F	X4001	10E
R2620	3G	R2664	2E	R4030	2C	TP2014	6F		
R2621	3H	R2665	3E	R8501	10D	TP2015	7G		
R2622	1F	R2666	2F	R8502	10D	TP2018	6F		
R2623	3G	R2667	3H	R8503	10E	TP2019	4F		
R2625	2F	R2668	3E	R8504	10D	TP2020	3F		
R2626	1G	R2669	5H	R8510	11C	TP2021	2G		
R2627	3G	R2670	3H	R8511	10C	TP2022	5E		
R2628	3G	R2671	5H	R8514	11B	TP2023	6E		
R2629	1G	R2672	5H	R8515	10B	TP2602	3G		
R2630	3G	R2673	4H	R8516	10G	TP4001	7D		

PRINTED CIRCUIT BOARDS

VCR(INSERTED PARTS)

SOLDER SIDE



COMPONENT PARTS LOCATION GUIDE

REF.NO.	LOCATION
CAPACITOR	
C101	7H
C103	8J
C104	7J
C105	8I
C106	7I
C107	7I
C108	9H
C109	8J
C110	7J
C112	7K
C114	7I
C115	7I
C116	8J
C118	8I
C119	8I
C120	6H
C121	8I
C122	8I
C123	8H
C124	9I
C125	9I
C126	9I
C127	9H
C128	9H
C130	9I
C131	10H
C132	9I
C133	11J
C134	11J
C135	10I
C136	10I
C137	11I
C138	10J
C139	10I
C140_1	12I
C141	11J
C142	10J
C143	10J
C144	10J
C145	10K
C146	12L
C147	10K
C148	11K
C151	11K
C152	11K
C154	10K
C155	12J
C156	10K
C158	10L
C162	9K
C163	9K
C165	9K
C166	9K
C169	9K
C172	11H
C303	4P
C304	4P
C308	3O
C309	2O
C313	6O
C315	1O
C316	6P
C318	2O
C652	19F
C701	9N
C702	9N
C703	9O
C704	10O
C705	9O
C706	9N
C707	8N
C708	8O
C709	8N
C711	8M
C713	7M
C714	7M
C715	7M
C716	8M
C719	7N
C720	7L
C721	8N
C722	8L
C723	8L
C724	8L
C725	8L
C726	8L
C727	7L
C728	7L
C729	8L
C730	9L
C731	11L
C732	11L
C734	11M
C735	10M
C736	12M
C737	12M
C738	9L
C739	12L
C740	11L
C741	10L
C742	10L
C743	11M
C744	10M
C746	10M
C747	11M
C748	11M
C749	9M
C750	10N
C751	10M
C752_1	10M
C754	11N
C755	10N
C756	11N
C757	9N
C758_1	10M
C759	9N
C760	10N
C761_1	8L
C762	9O
C763	9N
C1702	5F
C1703	5J
C1706	3D
C1708	2C
C1709	5I
C3001	13D
C3003	9D
C3004	13E
C3005	13P
C3006	13A
C3007	13E
C3008	10D
C3009	15F
C3010	12E
C3013	15B
C3014	18F
C3015	13E
C3016	14B
C3017	14C
C3018	13E
C3019	13E
C3020	10D
C3021	16G
C3022	14B
C3023	18G
C3024	15F
C3025	15F
C3027	13E
C3029	9E
C3030	18H
C3031	12D
C3032	14B
C3033_1	11C
C3034	13C
C3036	15C
C3038	12D
C3039	14C
C3041	12D
C3044	13D
C3045	16F
C3046	17F
C3047	17F
C3049	13D
C3050	15F
C3052	14B
C3053	14F
C3061	16E
C3065	14C
C8008	1G
C8009	2J
C8010	2H
C8011	2H
C8012	2J
C8013	3J
C8015	2L
C8019	18Q
C8020	2M
C8021	2M
C8022	9B
C8023	8B
C8024	4L
C8025	8A
C8026	4M
C8027	5M
C8028_1	4L
C8029	8P
C8030_1	4L
C8031	15K
C8032_1	15K
C8033	9P
C8037	11B
C8038	12B
C8039	11B
C8043	4N
C8045	4N
C8048	7C
C8049	14J
C8052	5K
C8053	14J
C8054	5N
C8064	8B
C8065	8B
C8070	7B
C8077	7A
C8079	7A
C8081	7C
C8090	7A
C8094	1E
C8095	1E
C8096	1E
C8097	1E
C8098	2G
C8099	19N
C8100	19M
C8102	8A
C8103	8A
C8104	6J
C8105	5J
C8106	8B
CONNECTOR	
CP101	8K
CP102	6H
CP103	10O
CP1701_	4A
CP3001	11D
CP651	14A
CP8001	6A
CP8002	10A
DIODE	
D651	20L
D656	18F
D701	12H
D1701	4F
D1702	4G
D1706	5I
D1709	6B
D3001	13I
D3007	13C
D3009	16G
D8002	17Q
D8004	4K
D8010	4K
D8011	11B
D8012	11A
D8013	11B
D8014	2I
D8015	2I
IC	
IC101	9J
IC701	9M
IC3001	15E
IC3003	15F
IC3099	18H
IC8001	5N
IC8003	4M
IC8004	7B
IC8005	15K
COIL	
L101	7I
L102	7J
L104_1	10H
L105_1	12J
L106_1	12K
L107	10K
L301	3O
L302	4O
L701_1	12L
L702_1	12M
L703	11N
L704_1	9L
L3003	13D
L8001	1J
L8002	2G
L8003	1I
L8004	14J
L8007	1E
L8013	4L
TRANSISTOR	
Q101	7H
Q102	8H
Q103	9H
Q104	7I
Q105	7K
Q106	11H
Q107	11J
Q109	11K
Q301	2O
Q303	6P
Q651	16C
Q652	18E
Q653	18E
Q654	17C
Q655	18D
Q656	18D
Q657	19C
Q658	18C
Q659	17C
Q660	18D
Q661	19C
Q662	17D
Q663	17E
Q664	16D
Q665	18C
Q666	18A
Q1701	5F
Q1702	4C
Q1703	4C
Q1704	4G
Q1705	5I
Q1706	3C
Q1707	3C
Q1708	2C
Q1713	4E
Q1714	4E
Q3001	16L
Q3002	16F
Q3004	17D
Q3005	16D
Q3006	13P
Q3008	13A
Q8001	2H
Q8002	2H
Q8003	2L
Q8004	2J
Q8005	3M
Q8006	2N
Q8007	4H
Q8008	6O
Q8010	5J
Q8011	4J
Q8012	5K
Q8013	5K
Q8014	4K
Q8015	4K
RESISTOR	
R101	7H
R102	7H
R103	8H
R104	7I
R105	9H
R106	8H
R107	7I

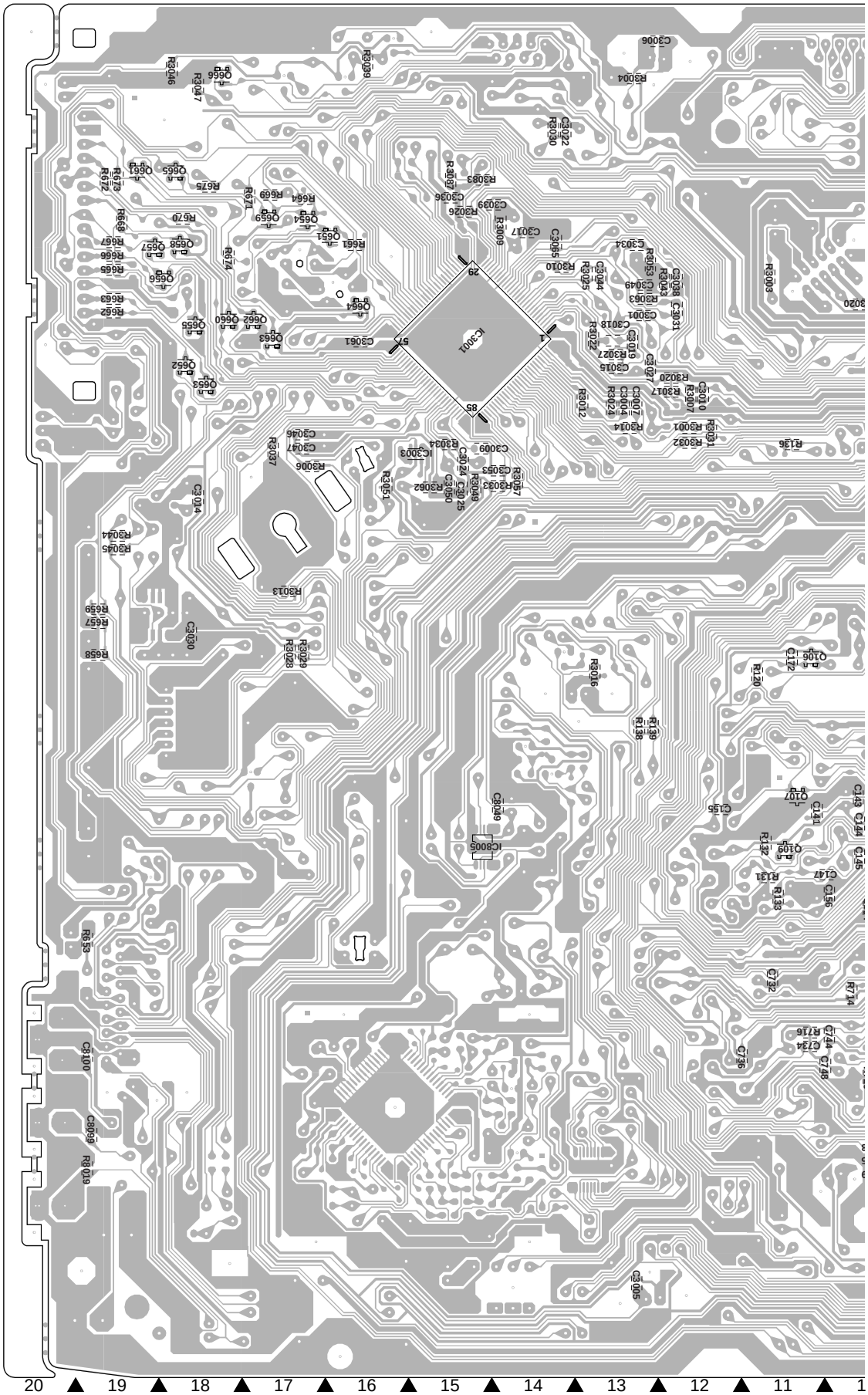
PRINTED CIRCUIT BOARDS

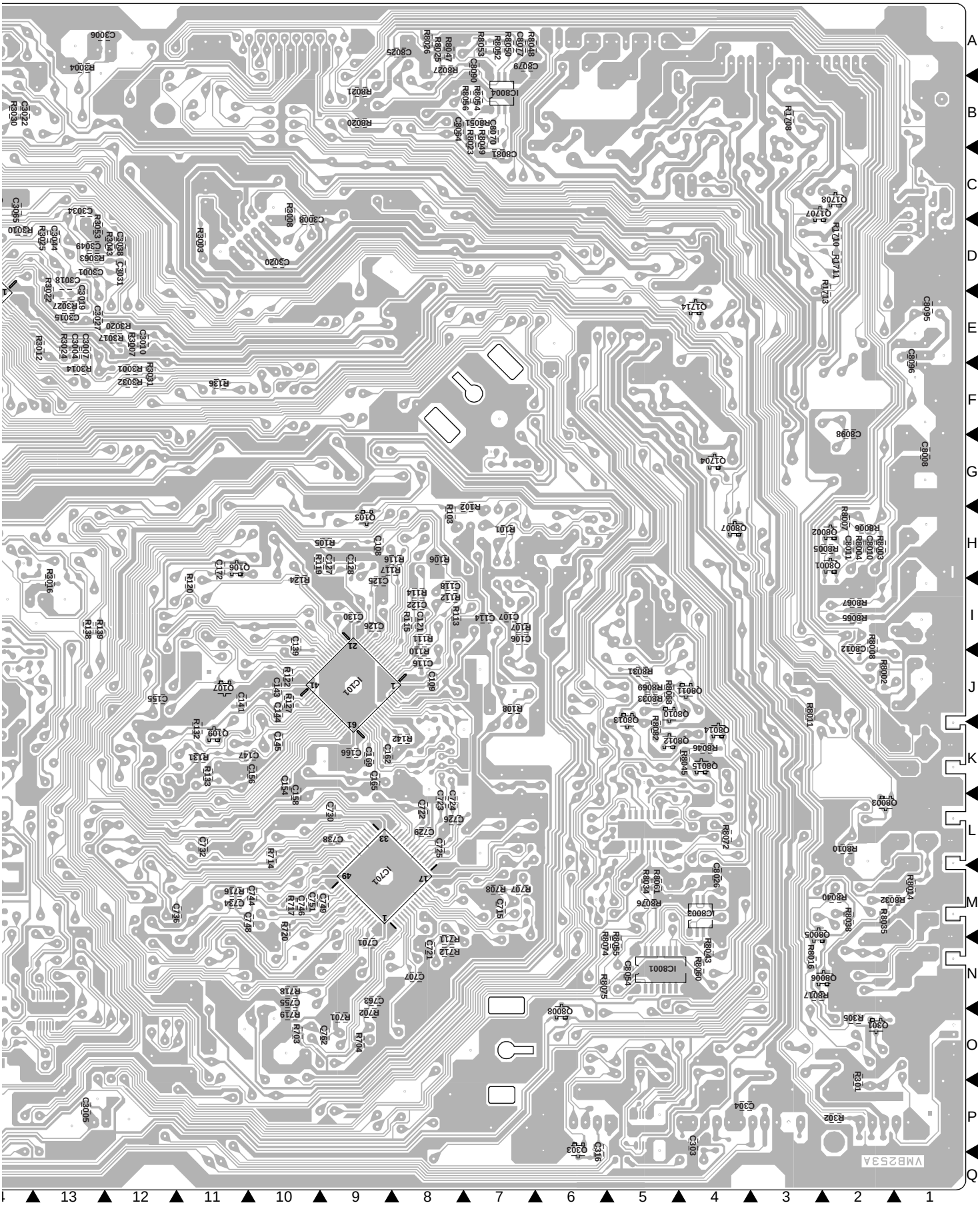
VCR(CHIP MOUNTED PARTS)

SOLDER SIDE

<VCR> VMB253A

REF.NO.	LOCATION
R108	7J
R110	8J
R111	8I
R112	8I
R113	8I
R114	8I
R115	8I
R116	8H
R117	9H
R119	10H
R120	11I
R121	10H
R122	10J
R123	12J
R124	10I
R127	10J
R129	11J
R131	11K
R132	11K
R133	11K
R136	11F
R137	12J
R138	13I
R139	13I
R142	8K
R301	2P
R302	2P
R304	2O
R305	2O
R651	19D
R653	19L
R657	19H
R658	19H
R659	19H
R661	16C
R662	19D
R663	19D
R664	17C
R665	19D
R666	19D
R667	19C
R668	19C
R669	17C
R670	18C
R671	17C
R672	19C
R673	19C
R674	18D
R675	18C
R701	9O
R702	9O
R703	10O
R704	9O
R707	7M
R708	7M
R711	8N
R712	8N
R714	10L
R716	11M
R717	10M
R718	10N
R719	10O
R720	10M
R1701	4F
R1702	4G
R1703	4C
R1706	2D
R1708	3B
R1709	2C
R1710	2D
R1711	2D
R1713	2E
R1714	3C
R1715	5H
R1716	9C
R1720	4E
R3001	12F
R3002	18J
R3003	11D
R3004	13A
R3006	17F
R3007	12E
R3008	10C
R3009	14C
R3010	14D
R3011	17K
R3012	13E
R3013	17H
R3014	13F
R3015	13B
R3016	13I
R3017	12E
R3019	17J
R3020	12E
R3022	13E
R3024	13E
R3025	13D
R3026	15C
R3027	13E
R3028	17H
R3029	17H
R3030	14B
R3031	12F
R3032	12F
R3033	14F
R3034	15F
R3037	17F
R3038	16A
R3039	16A
R3043	12D
R3044	19G
R3045	19G
R3046	18A
R3047	18A
R3049	15F
R3050	17D
R3051	16F
R3053	13D
R3055	12B
R3056	11D
R3057	14F
R3062	15F
R3063	13D
R3083	15C
R3087	15C
R8002	2J
R8003	2H
R8004	2H
R8005	2H
R8006	2H
R8007	2H
R8008	2I
R8009	3K
R8010	2L
R8011	3J
R8014	1M
R8015	2M
R8016	3N
R8017	3N
R8019	19O
R8020	9B
R8021	9B
R8022	8B
R8023	7B
R8024	8B
R8025	8A
R8026	8A
R8027	8A
R8028	10B
R8029	10B
R8030	10B
R8031	5J
R8032	2M
R8033	5J
R8034	5M
R8035	2M
R8038	2M
R8040	2M
R8043	4N
R8045	4K
R8046	4K
R8047	8A
R8048	7A
R8049	7B
R8050	7A
R8051	7B
R8052	7A
R8053	7A
R8054	7B
R8055	5N
R8056	7B
R8057	5J
R8058	6J
R8059	4M
R8060	4N
R8061	5M
R8065	2I
R8067	2I
R8068	5J
R8069	5J
R8072	4L
R8073	3L
R8074	6N
R8075	6N
R8076	5M
R8082	5K
SWITCH	
SW301	1O
SW651	19G
SW652	19P
SW653	19H
SW654	19J
SW655	19K
SW3001	19N
TEST POINT	
TP101	14P
TP701	14P
TP3001	6D
TP3002	14P
TP8001	2L
OTHER	
J8001	1L
J8003	20O
J8004	20N
J8005	20M
J8006	1J
J8007	1G
J8008	1K
J8009	1H
OS651	20F
OS8001	1E
TU301	1P
V651	19D
X101	10K
X3001	15F
X3002	17F
X3003	14C

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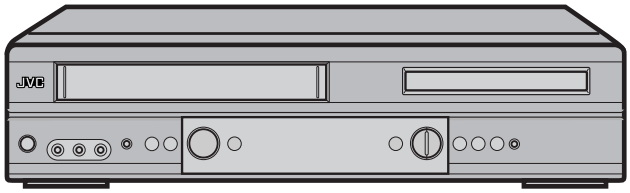
VMB253A

JVC

SERVICE MANUAL

DVD PLAYER VIDEO CASSETTE RECORDER

HR-XVC1UJ



SPATIALIZER® 3-D STEREO

DOLBY DIGITAL

dts DIGITAL OUT

VHS SQPB

4 HEAD Hi-Fi

19µm HEAD

DVD VIDEO

COMPACT disc DIGITAL VIDEO

COMPACT disc DIGITAL AUDIO

Regarding service information other than these sections, refer to the HR-XVC1U service manual (No.82902). Also, be sure to note important safety precautions provided in the service manual.

SPECIFICATIONS

GENERAL

Power supply:	AC 110-220V, 50/60Hz
Power consumption:	Operation: 22W at 220V 60Hz, Stand by: 4W at 220V 60Hz
Weight:	9.9lbs (4.5 kg)
Dimensions:	Width : 16-15/16 inches (430 mm) Height : 3-7/8 inches (99 mm) Depth : 12-1/4 inches (311 mm)
Inputs/Outputs:	
Video:	In: 1Vp-p/75 ohm, Out: 1Vp-p/75 ohm
Audio:	In: -8 dBm/50K ohm, Out: -8 dBm/1K ohm
Antenna:	UHF/VHF IN/OUT: 75 ohm coaxial
Hi-Fi Frequency Response:	20Hz to 20,000Hz
Hi-Fi Dynamic Range:	More than 90dB

VCR section

Video Head:	4 Rotary Heads
Audio Track:	Hi-Fi Sound - 2 Tracks / MONO Sound - 1 Track
Tuner:	181 Channel Freq. Synthesized VHF 2-13 UHF 14-69 CATV 14-36 (A)-(W) 37-59 (AA)-(WW) 60-85 (AAA)-(ZZZ) 86-94 (86)-(94) 95-99 (A-5)-(A-1) 100-125 (100)-(125) 01 (5A)
RF Channel Output:	Channel 3 or 4, Switchable
F.FWD/REW Time:	Approx. 1minute and 48 seconds (with T-120 Cassette Tape) (at +25°C)

DVD section

Signal system:	NTSC
Applicable disc:	DVD (12cm, 8cm), CD (12cm, 8cm)
Audio characteristics:	DVD: 4Hz - 22KHz
Frequency response:	CD: 4Hz - 20KHz
S/N Ratio:	90dB
Harmonic distortion:	0.01%
Wow and flutter:	Below Measurable Level
Dynamic range:	90dB
Output:	Video : (RCA) 1 Vp-p/75ohm Audio : (RCA) -8 dBm/1Kohm Digital Audio : 0.5Vp-p 75 ohm
Pickup:	CD : Wavelength: 775 - 805 nm, Maximum output power: 0.5 mW DVD : Wavelength: 640 - 660 nm, Maximum output power: 1.0 mW

ACCESSORIES:

Remote control x 1
Batteries (2 x AA)
75 ohm Coaxial Cable x 1
AUDIO/VIDEO Cable x 1
Conversion plug x 1

V14PV1

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No.82921
June 2002

TABLE OF CONTENTS

Section	Title	Page
DIFFERENT TABLE		1
DISASSEMBLY INSTRUCTIONS		
1.	REMOVAL OF MECHANICAL PARTS AND P.C. BOARDS	1-1
	1-1. TOP CABINET AND FRONT CABINET	1-1
	1-2. FLAP	1-1
	1-3. DECK CD AND MPEG MT PCB	1-1
	1-4. POWER PCB	1-2
	1-5. VCR DECK	1-2
	1-6. VCR PCB	1-2
WHEN REPLACING EEPROM(MEMORY) IC		1-3
DISC REMOVAL METHOD AT NO POWER SUPPLY		1-3
WHEN "N" IS ALWAYS BEING DISPLAYED ON THE TV MONITOR		1-3
ELECTRICAL ADJUSTMENTS		
1.	BASIC ADJUSTMENT	1-4
	1-1. SWITCHING POINT	1-4
ELECTRICAL ADJUSTMENT PARTS LOCATION GUIDE		1-4
IC DESCRIPTIONS		1-5
SERVO TIMING CHART		1-8
MECHANISM TIMING CHART		1-9
CHARTS AND DIAGRAMS (2-1 to 2-52)		
	PRINTED CIRCUIT BOARDS OPERATION / POWER	2-1
	PRINTED CIRCUIT BOARDS VCR MT(INSERTED PARTS)	2-2
	PRINTED CIRCUIT BOARDS VCR MT(CHIP PARTS)	2-4
	PRINTED CIRCUIT BOARDS MPEG MT	2-7
	INTERCONNECTION DIAGRAM	2-8
	MPEG SCHEMATIC DIAGRAM	2-10
	SDRAM SCHEMATIC DIAGRAM	2-12
	DVD SYSCON SCHEMATIC DIAGRAM	2-14
	VIDEO ENCODER DIAGRAM	2-16
	Y/C/AUDIO/CCD/HEAD AMP SCHEMATIC DIAGRAM	2-18
	VCR SYSCON SCHEMATIC DIAGRAM	2-20
	TUNER/JACK SCHEMATIC DIAGRAM	2-22
	REGULATOR SCHEMATIC DIAGRAM	2-24
	OPERATION SCHEMATIC DIAGRAM	2-26
	Hi-Fi/DEMODULATOR SCHEMATIC DIAGRAM	2-28
	DVD IN/OUT SCHEMATIC DIAGRAM	2-30
	POWER SCHEMATIC DIAGRAM	2-32
	DVD BLOCK DIAGRAM	2-34
	Y/C/AUDIO/CCD/HEAD AMP BLOCK DIAGRAM	2-36
	VCR SYSCON BLOCK DIAGRAM	2-38
	REGULATOR BLOCK DIAGRAM	2-40
	OPERATION BLOCK DAIGRAM	2-42
	Hi-FI/DEMODULATOR BLOCK DIAGRAM	2-44
	TUNER/JACK BLOCK DIAGRAM	2-46
	POWER BLOCK DAIGRAM	2-48
	WAVEFORMS	2-50
PARTS LIST (3-1 to 3-8)		
1.	PACKING AND ACCESSORY ASSEMBLY <M1>	3-1
2.	ELECTRICAL PARTS LIST	
	VCR MT BOARD ASSEMBLY <03>	3-2
	MPEG MT BOARD ASSEMBLY <50>	3-6
	OPERATION BOARD ASSEMBLY <28>	3-8

The following table indicate main different points between models HR-XVC1U and HR-XVC1UJ.

ITEM \ MODEL	HR-XVC1U	HR-XVC1UJ
POWER VOLTAGE	120V, 60Hz	110-220V, 50/60Hz
PLUG ADAPTER	NOT USED	USED
DVD DISC REGION	1	←

The following tables indicate different parts number between models HR-XVC1U and HR-XVC1UJ.

PACKING AND ACCESSORY ASSEMBLY<M1>

PACKING AND ACCESSORY ASSEMBLY<M1> is indicated on the parts list.

FINAL ASSEMBLY<M2>

⚠ REF NO.	ITEM \ MODEL	HR-XVC1U	HR-XVC1UJ
601	CABINET, FRONT ASSY	X-A2A302A720	X-A2A309E720
608	CABINET, FRONT	X-701WPJ1107	X-701WPJB699
610	FLAP	X-712WPJ0758	X-712WPJB411
620	SHEET, RATING	X-7225380015	X-722538A022

Notes: Mark ← is same as left.
Mark — is not used.
Mark * reference model was also changed.

POWER PCB ASSEMBLY<01>

⚠ REF NO.	ITEM / MODEL	HR-XVC1U	HR-XVC1UJ
PCB240	POWER PCB ASSEMBLY	X-A2A302A240	X-A2A309E240
⚠R501	RESISTOR	X-R0G3K2335K	—
⚠R502	OMF RESISTOR	X-R3X181R39J	X-R3X181010J
⚠R504	OMF RESISTOR	X-R3X181561J	X-R3X181331J
R506	RESISTOR	X-R002T2105J	X-R002T2564J
⚠R512	OMF RESISTOR	X-R3X181273J	X-R3X18A823J
R524	RESISTOR	QRE141J-821Y	QRE141J-471J
R536	RESISTOR	QRE141J-102Y	QRE141J-222Y
C508	F CAPACITOR	X-P1S3T0822J	X-P1S3T0123J
⚠C511	E CAPACITOR	X-E62NFC221M	X-E62PFH181M
C513	CAPACITOR	QCB32HK-221Z	X-C0JTB06H2K
⚠C516	CAPACITOR	QCZ9079-472	X-CD39E0ME3M
C525	CAPACITOR	QCZ0131-681	X-C0PLRR7L2K
C526	CAPACITOR	—	X-CD39B0MH2K
⚠C529	E CAPACITOR	X-E5EZT0102M	—
C530	E CAPACITOR	QETN0JM-227Z	X-E5EZU0221M
D509	FR DIODE	X-D2WXGP10J0	X-D2WXGP10K0
D525	DIODE	X-D2WXN40050	—
⚠Q501	FET	X-TJXG5NC500	X-T41F026510
⚠T501	TRANSFORMER, SWITCHING	X-0481290814	X-0481290944
⚠F501	FUSE	X-081PC04004	X-080NT04003
EL501	EYE LET	—	X-124120301A
⚠CD501	CORD, AC BUSH	X-120R419905	X-120S4A9803

VCR PCB ASSEMBLY<03>

⚠ REF NO.	ITEM / MODEL	HR-XVC1U	HR-XVC1UJ
PCB010	VCR PCB ASSEMBLY	X-A2A302A010	X-A2A309E010

OPERATION PCB ASSEMBLY<28>

⚠ REF NO.	ITEM / MODEL	HR-XVC1U	HR-XVC1UJ
PCB270	OPERATION PCB ASSEMBLY	X-A2A302A270	X-A2A309E270

MPEG MT PCB ASSEMBLY<50>

⚠ REF NO.	ITEM / MODEL	HR-XVC1U	HR-XVC1UJ
PCB120	MPEG MT PCB ASSEMBLY	X-A2A303A120	X-A2A309E120

Notes: Mark ←— is same as left.
Mark — is not used.
Mark * reference model was also changed.

DISASSEMBLY INSTRUCTIONS

1. REMOVAL OF MECHANICAL PARTS AND P.C. BOARDS

1-1: TOP CABINET AND FRONT CABINET (Refer to Fig. 1-1)

1. Remove the 5 screws ①.
2. Remove the Top Cabinet in the direction of arrow (A).
3. Disconnect the following connector: (CP681).
4. Unlock the 8 supports ②.
5. Remove the Front Cabinet in the direction of arrow (B).
6. Remove the 3 screws ③.
7. Remove the Operation PCB in the direction of arrow (C).

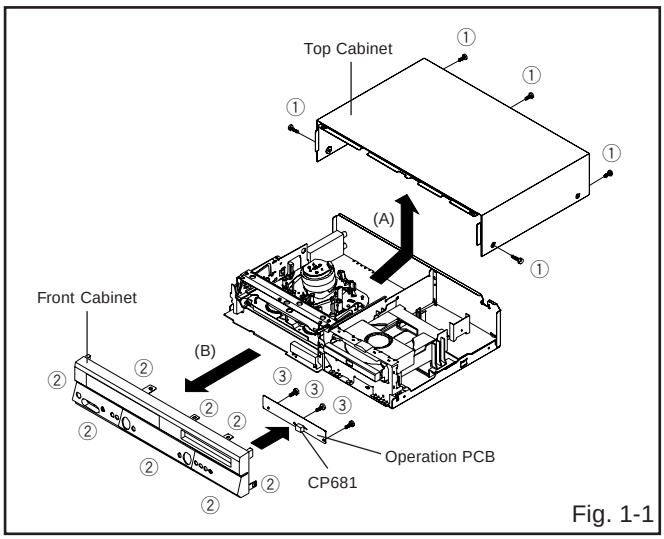


Fig. 1-1

1-2: FLAP (Refer to Fig. 1-2)

1. Open Flap to 90˚ and flex in direction of arrow (A), at the same time slide in direction of arrow (B).
2. Then lift in direction of arrow (C).

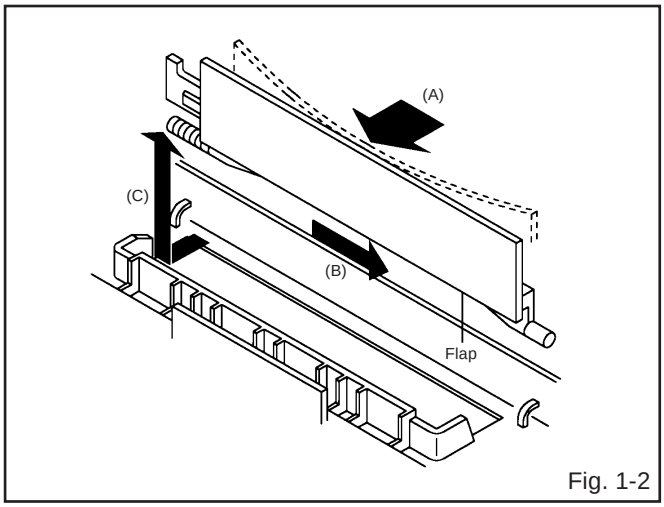


Fig. 1-2

1-3: DECK CD AND MPEG MT PCB (Refer to Fig. 1-3)

1. Remove the 2 screws ①.
2. Remove the 2 screws ②.
3. Disconnect the following connectors: (CP503, CP8001 and CP8002).
4. Remove the Deck Angle 1/2 in the direction of arrow (A).
5. Remove the 2 screws ③.
6. Remove the Front Shield in the direction of arrow (B).
7. Disconnect the following connectors: (CP4001 and CP4002).
8. Remove the 4 screws ④.
9. Remove the Deck CD in the direction of arrow (C).
10. Remove the 4 screws ⑤.
11. Remove the MPEG Shield in the direction of arrow (D).
12. Remove the MPEG PCB in the direction of arrow (E).

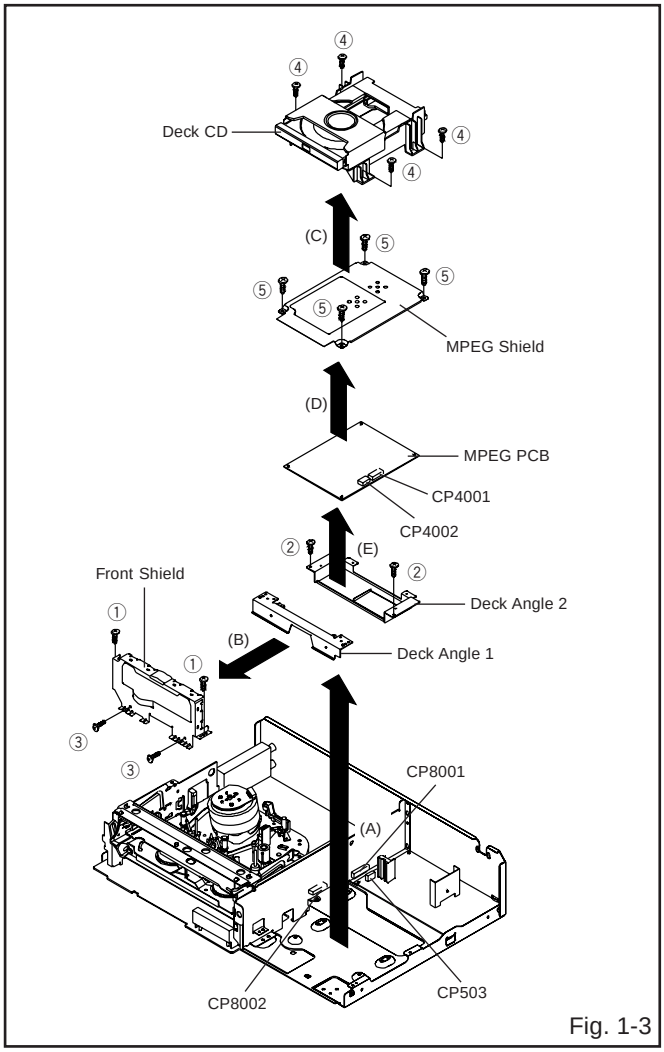


Fig. 1-3

DISASSEMBLY INSTRUCTIONS

1-4: POWER PCB (Refer to Fig. 1-4)

1. Disconnect the following connector: (CP1701).
2. Remove the 3 screws ①.
3. Remove the Power PCB in the direction of arrow.

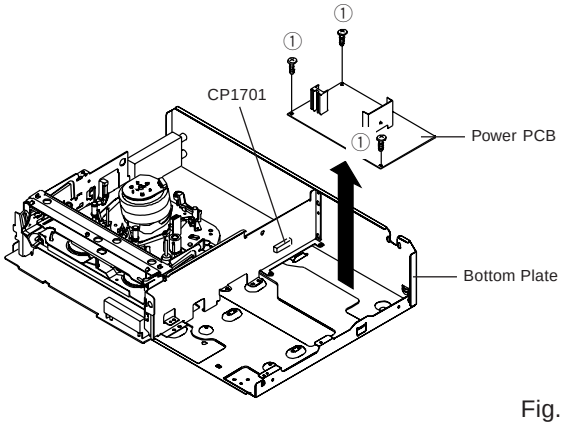


Fig. 1-4

1-5: VCR DECK (Refer to Fig. 1-5)

1. Unlock the 2 supports ① and remove the Top Holder.
2. Remove the 3 screws ②.
3. Disconnect the following connectors: (CP101, CP102, CP103 and CP3001).
4. Remove the AC Head Cover and VCR Deck in the direction of arrow.

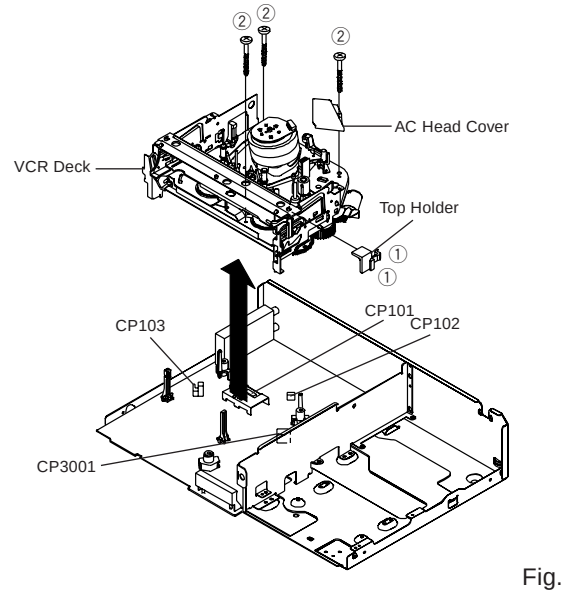


Fig. 1-5

1-6: VCR PCB (Refer to Fig. 1-6)

1. Remove the screw ①.
2. Remove the 7 screws ②.
3. Remove the VCR PCB in the direction of arrow.

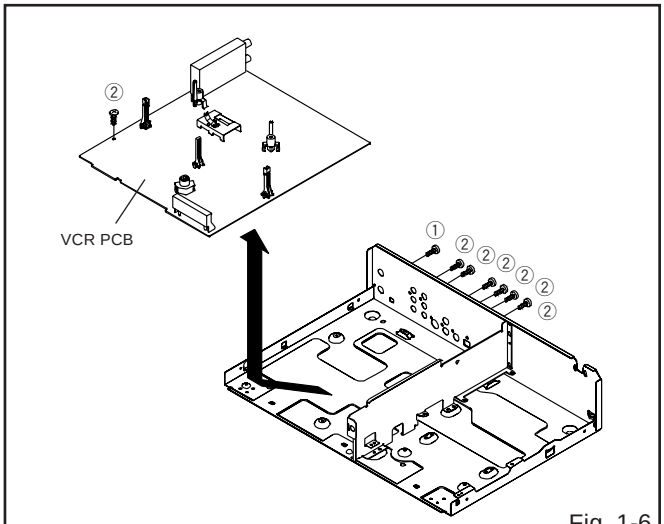


Fig. 1-6

WHEN REPLACING EEPROM (MEMORY) IC

If a service repair is undertaken where it has been required to change the MEMORY IC, the following steps should be taken to ensure correct data settings while making reference to TABLE 1.

NOTE: No need setting for after INI 2D.

INI	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9	+A	+B	+C	+D	+E	+F
00	0A	A0	CA	10	64	64	4A	86	0B	2F	86	2F	0A	08	0A	0F
10	AF	97	95	8A	40	55	31	04	24	A5	9F	3A	00	10	BF	00
20	29	01	15	77	61	31	29	04	00	00	00	00	A2	B0	---	---

Table 1

1. Connect the set to TV Monitor.
2. Turn on the POWER.
3. Press both CH UP button on the set and the FF button on the set for more than 2 seconds. ADDRESS and DATA will appear on TV Monitor as Fig 1.
4. ADDRESS is now selected and should “blink”. Using the SET + or - button on the remote, step through the ADDRESS until required ADDRESS to be changed is reached.
5. Press ENTER to select DATA. When DATA is selected, it will “blink”.
6. Again, step through the DATA using SET + or - button until required DATA value has been selected.
7. Pressing ENTER will take you back to ADDRESS for further selection if necessary.
8. Repeat steps 4 to 7 until all data has been checked.
9. When satisfied correct DATA has been entered, turn POWER off (return to STANDBY MODE) to finish DATA input.

The unit will now have the correct DATA for the new MEMORY IC.

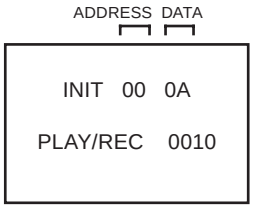
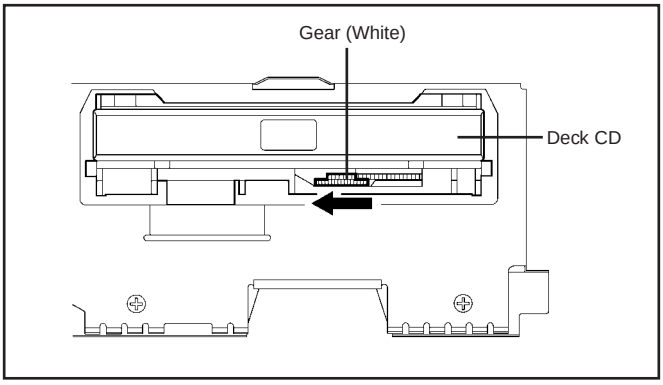


Fig. 1

DISC REMOVAL METHOD AT NO POWER SUPPLY

1. Remove the Top Cabinet and Front Cabinet. **(Refer to item 1 of the DISASSEMBLY INSTRUCTIONS.)**
2. Rotate the white gear of Deck CD section in the direction of the arrow by hand, remove the disc from Deck CD.



<NOTE> WHEN "N" IS ALWAYS BEING DISPLAYED ON THE TV MONITOR. (REMOTE CONTROLLER FORMAT)

This product is usable the remote controller which is used by DVD+VHS of the other brand.
If "N" is always being displayed on the TV monitor, can not control from provided remote controller since this product is other brand format.

- How to return a JVC format.
  Turn off the power of the set and push the CHANNEL+ button and the REC button of the set simultaneously.

ELECTRICAL ADJUSTMENTS

Read and perform this adjustment when repairing the circuits or replacing electrical parts or PCB assemblies.

1. BASIC ADJUSTMENT

1-1: SWITCHING POINT

CONDITIONS

MODE-PLAYBACK
Input Signal-Alignment Tape **(MHP)**

INSTRUCTIONS

1. Connect CH-1 on the oscilloscope to **TP3002** and CH-2 to **TP8001**.
2. Playback the alignment tape. **(MHP)**
3. Press and hold the Tracking-Auto button on the remote control more than 2 seconds to set tracking to center.
4. Press both CH UP button on the set and the STOP button on the set for more than 2 seconds.

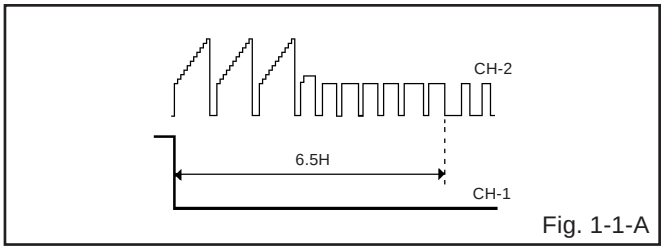


Fig. 1-1-A

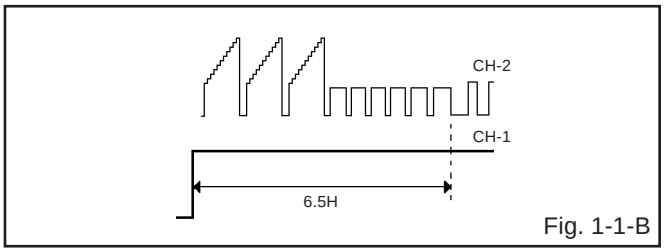
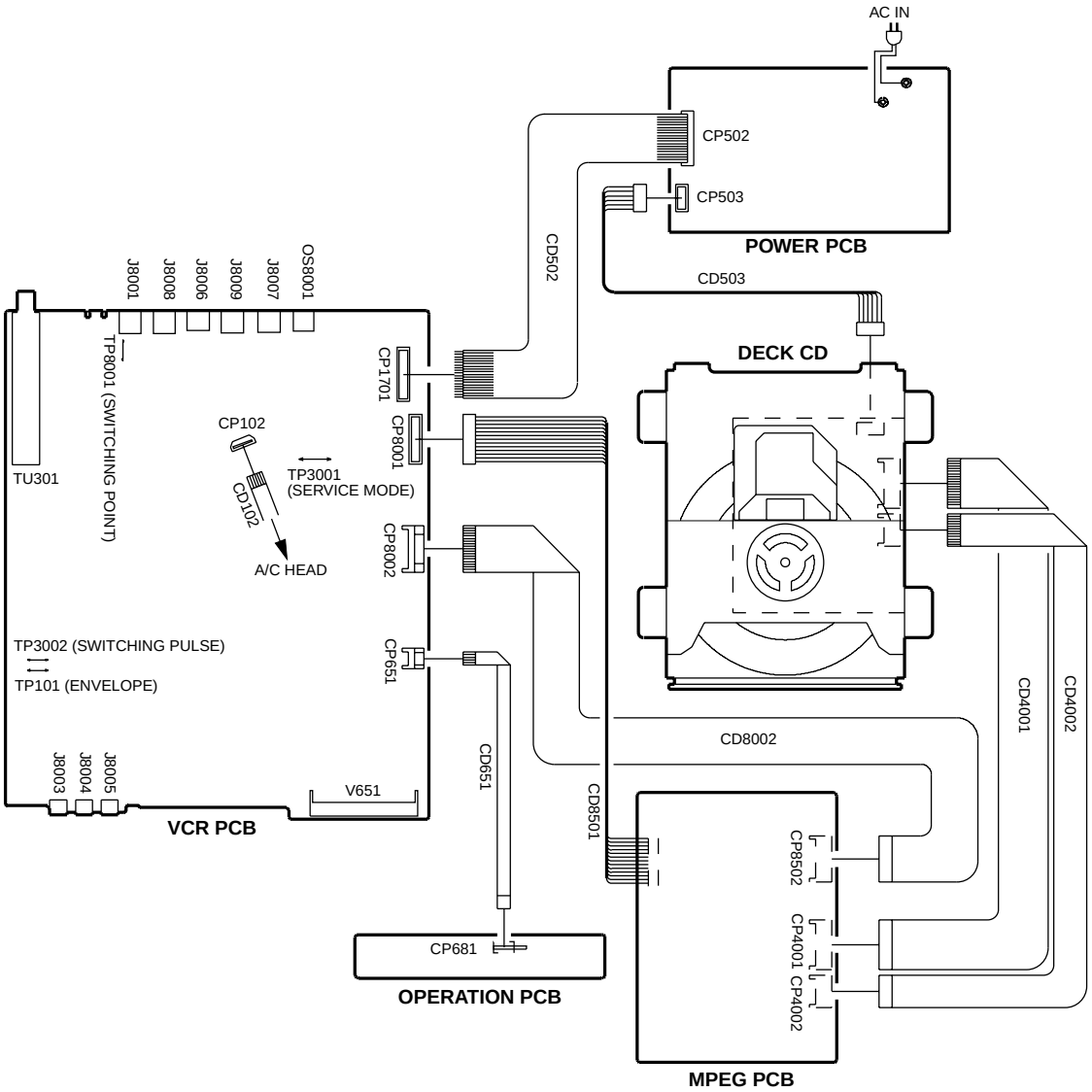


Fig. 1-1-B

ELECTRICAL ADJUSTMENT PARTS LOCATION GUIDE (Connector Connections)



[redacted]

JVC

VICTOR COMPANY OF JAPAN, LIMITED
VIDEO DIVISION

S40894

Printed in Japan

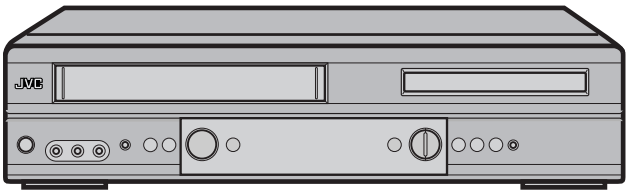
JVC

SCHEMATIC DIAGRAMS

DVD PLAYER VIDEO CASSETTE RECORDER

HR-XVC1UJ

CD-ROM No.SML200206



SPATIALIZER® 3-D STEREO

DOLBY DIGITAL

dts DIGITAL OUT

VHS SQPB

4 HEAD Hi-Fi

19µm HEAD

DVD VIDEO

COMPACT disc DIGITAL VIDEO

COMPACT disc DIGITAL AUDIO

Regarding service information other than these sections, refer to the HR-XVC1U service manual (No.82902). Also, be sure to note important safety precautions provided in the service manual.

SPECIFICATIONS

GENERAL

Power supply:	AC 110-220V, 50/60Hz
Power consumption:	Operation: 22W at 220V 60Hz, Stand by: 4W at 220V 60Hz
Weight:	9.9lbs (4.5 kg)
Dimensions:	Width : 16-15/16 inches (430 mm) Height : 3-7/8 inches (99 mm) Depth : 12-1/4 inches (311 mm)
Inputs/Outputs:	
Video:	In: 1Vp-p/75 ohm, Out: 1Vp-p/75 ohm
Audio:	In: -8 dBm/50K ohm, Out: -8 dBm/1K ohm
Antenna:	UHF/VHF IN/OUT: 75 ohm coaxial
Hi-Fi Frequency Response:	20Hz to 20,000Hz
Hi-Fi Dynamic Range:	More than 90dB

VCR section

Video Head:	4 Rotary Heads
Audio Track:	Hi-Fi Sound - 2 Tracks / MONO Sound - 1 Track
Tuner:	181 Channel Freq. Synthesized VHF 2-13 UHF 14-69 CATV 14-36 (A)-(W) 37-59 (AA)-(WW) 60-85 (AAA)-(ZZZ) 86-94 (86)-(94) 95-99 (A-5)-(A-1) 100-125 (100)-(125) 01 (5A)
RF Channel Output:	Channel 3 or 4, Switchable
F.FWD/REW Time:	Approx. 1minute and 48 seconds (with T-120 Cassette Tape) (at +25°C)

DVD section

Signal system:	NTSC
Applicable disc:	DVD (12cm, 8cm), CD (12cm, 8cm)
Audio characteristics:	DVD: 4Hz - 22KHz
Frequency response:	CD: 4Hz - 20KHz
S/N Ratio:	90dB
Harmonic distortion:	0.01%
Wow and flutter:	Below Measurable Level
Dynamic range:	90dB
Output:	Video : (RCA) 1 Vp-p/75ohm Audio : (RCA) -8 dBm/1Kohm Digital Audio : 0.5Vp-p 75 ohm
Pickup:	CD : Wavelength: 775 - 805 nm, Maximum output power: 0.5 mW DVD : Wavelength: 640 - 660 nm, Maximum output power: 1.0 mW
ACCESSORIES:	Remote control x 1 Batteries (2 x AA) 75 ohm Coaxial Cable x 1 AUDIO/VIDEO Cable x 1 Conversion plug x 1

V14PV1

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No.82921SCH
June 2002

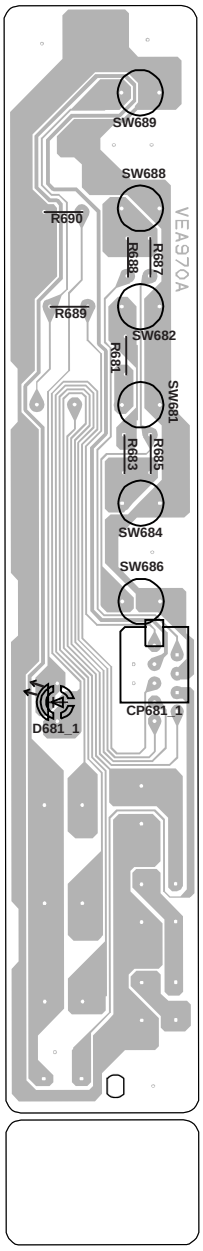
SECTION 2
CHARTS AND DIAGRAMS

PRINTED CIRCUIT BOARDS
OPERATION / POWER

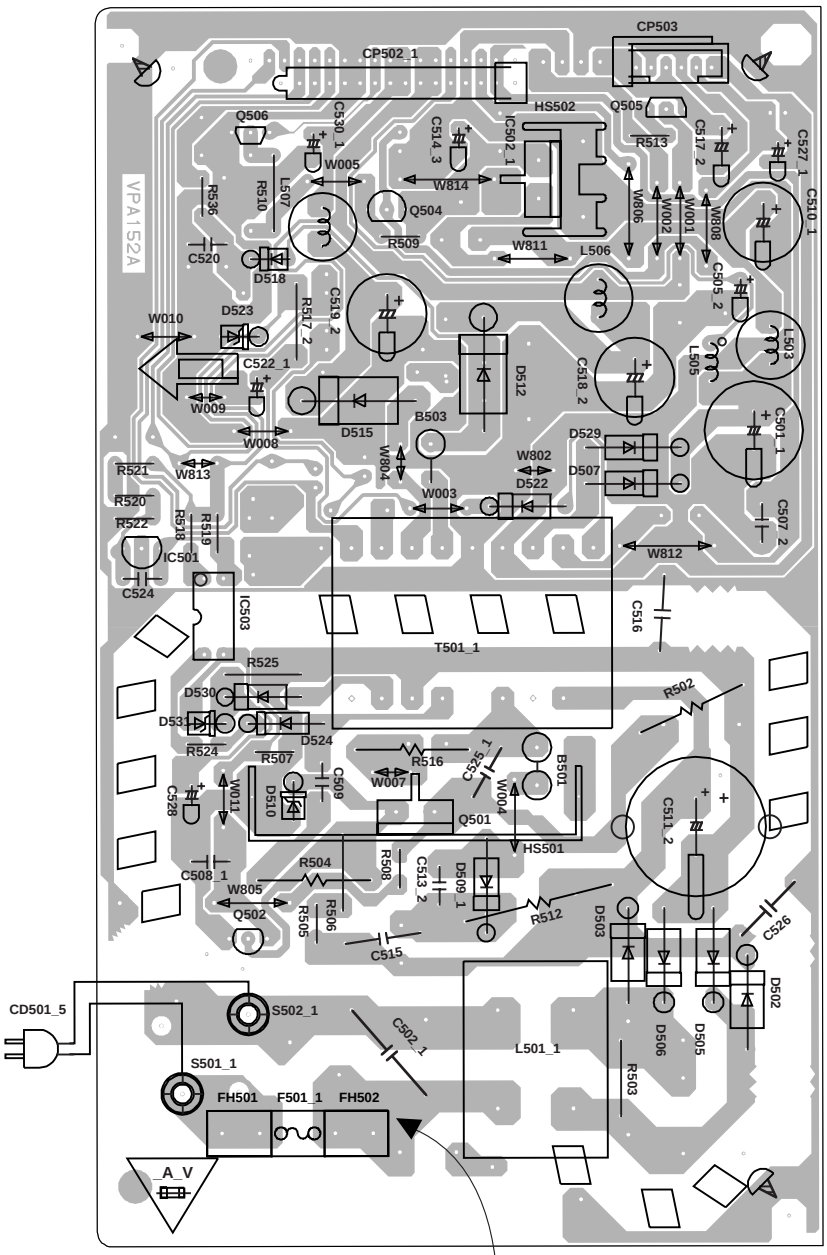
T F

CAUTION :
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE AND RATED FUSE(S).
ATTENTION :
REPLACER PAR DES FUSIBLE DE MEME TYPE.

OPERATION
SOLDER SIDE



POWER
SOLDER SIDE

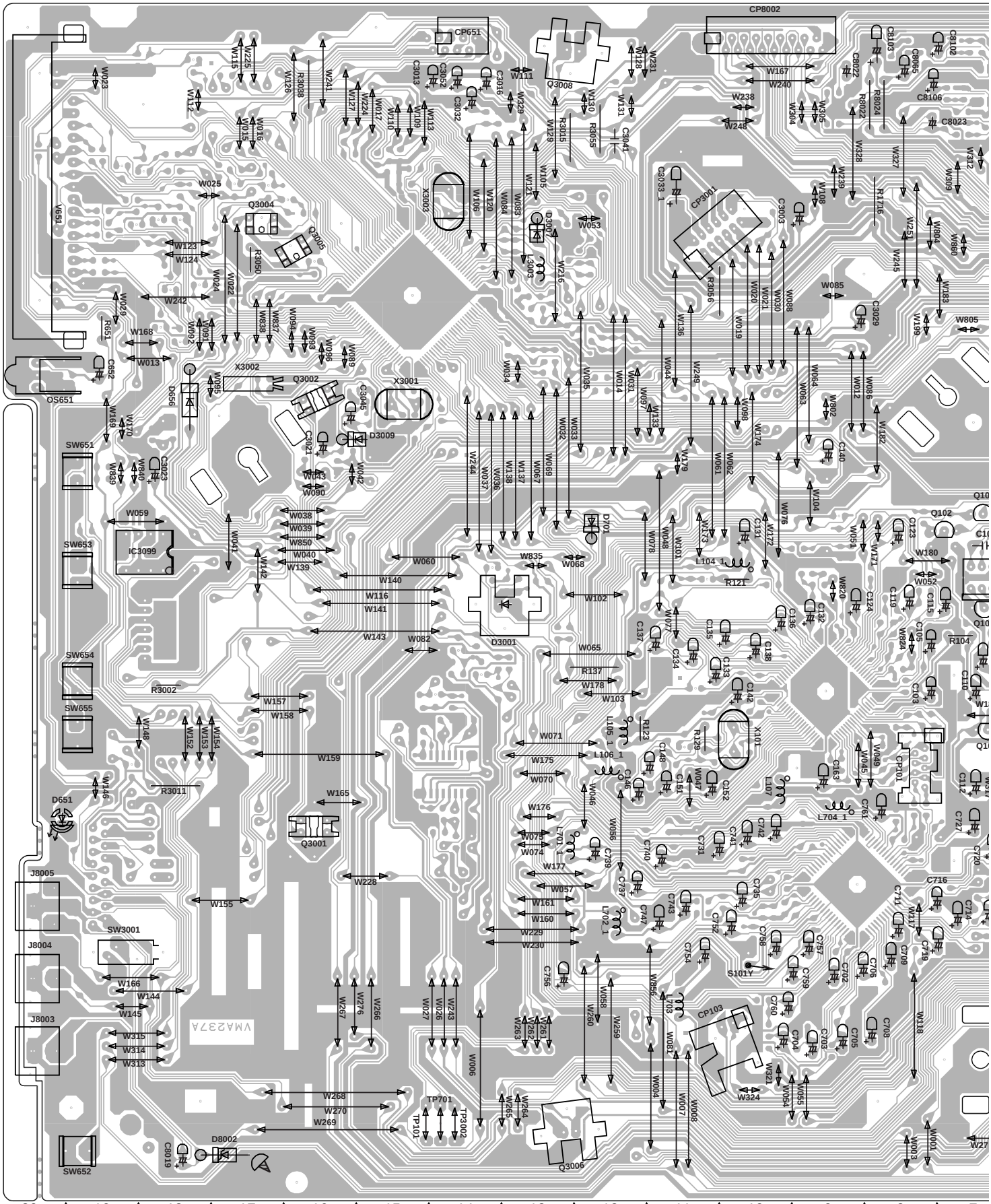


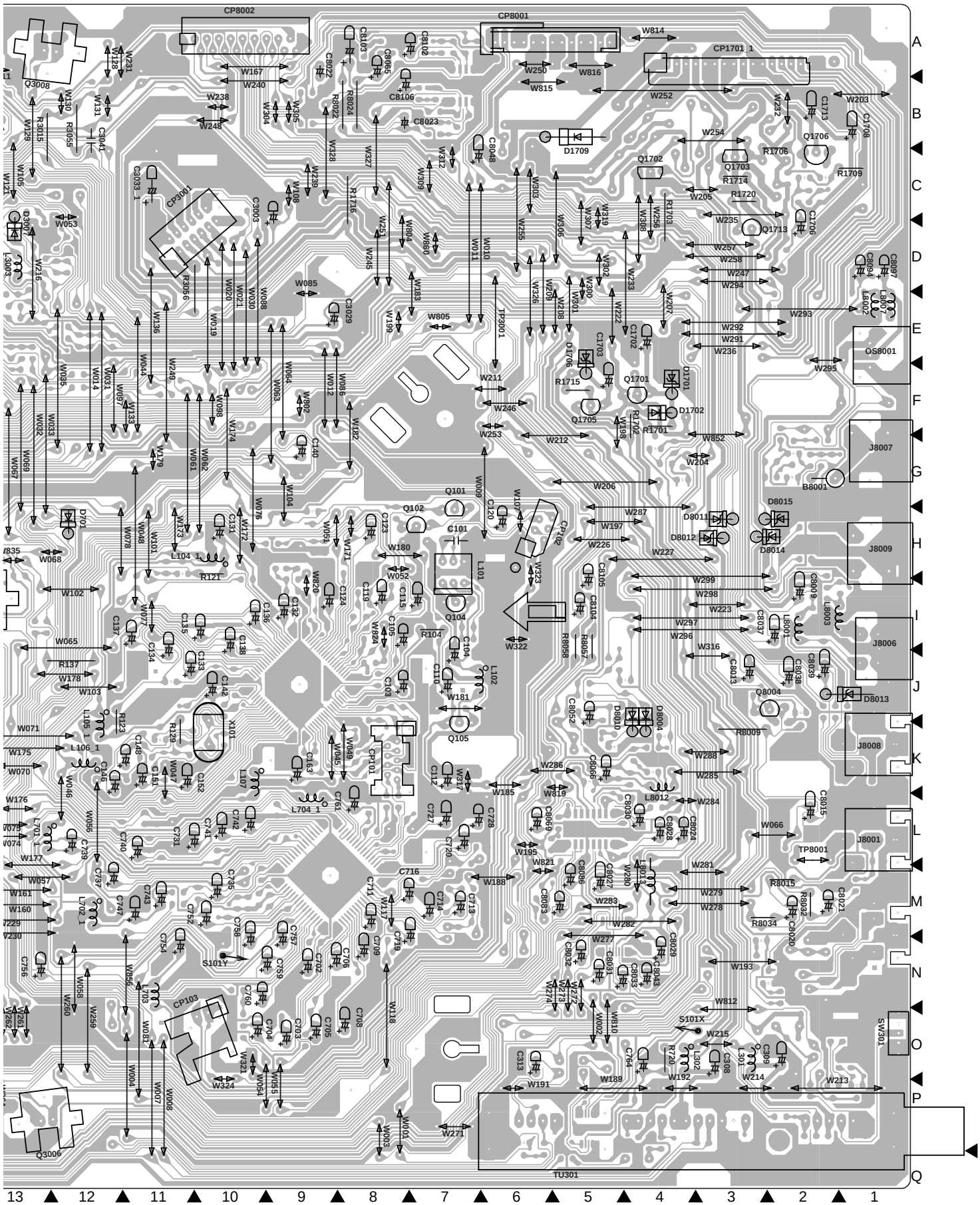
DANGEROUS VOLTAGE

PRINTEND CIRUIT BOARDS

VCR MT(INSERTED PARTS)

SOLDER SIDE

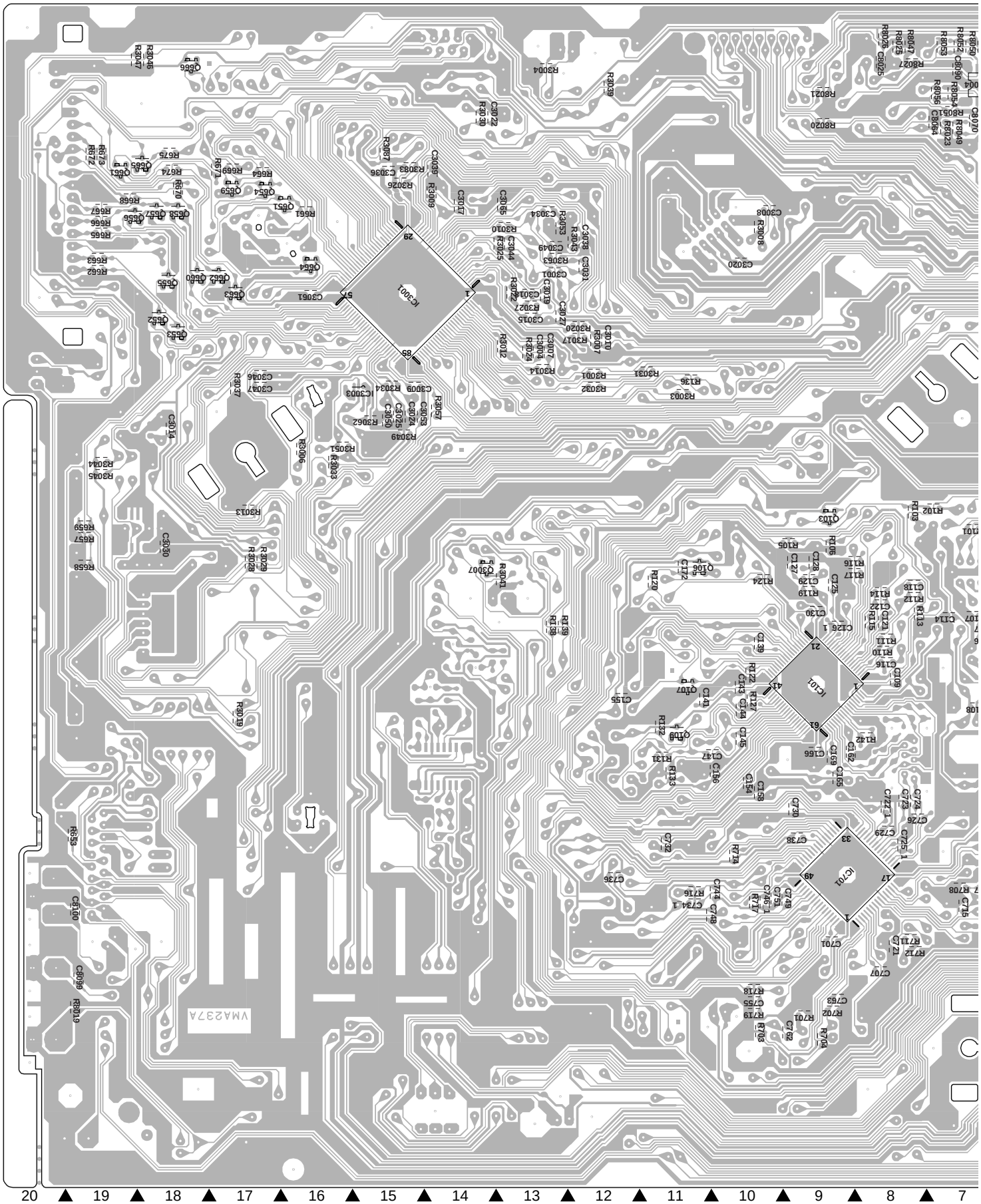


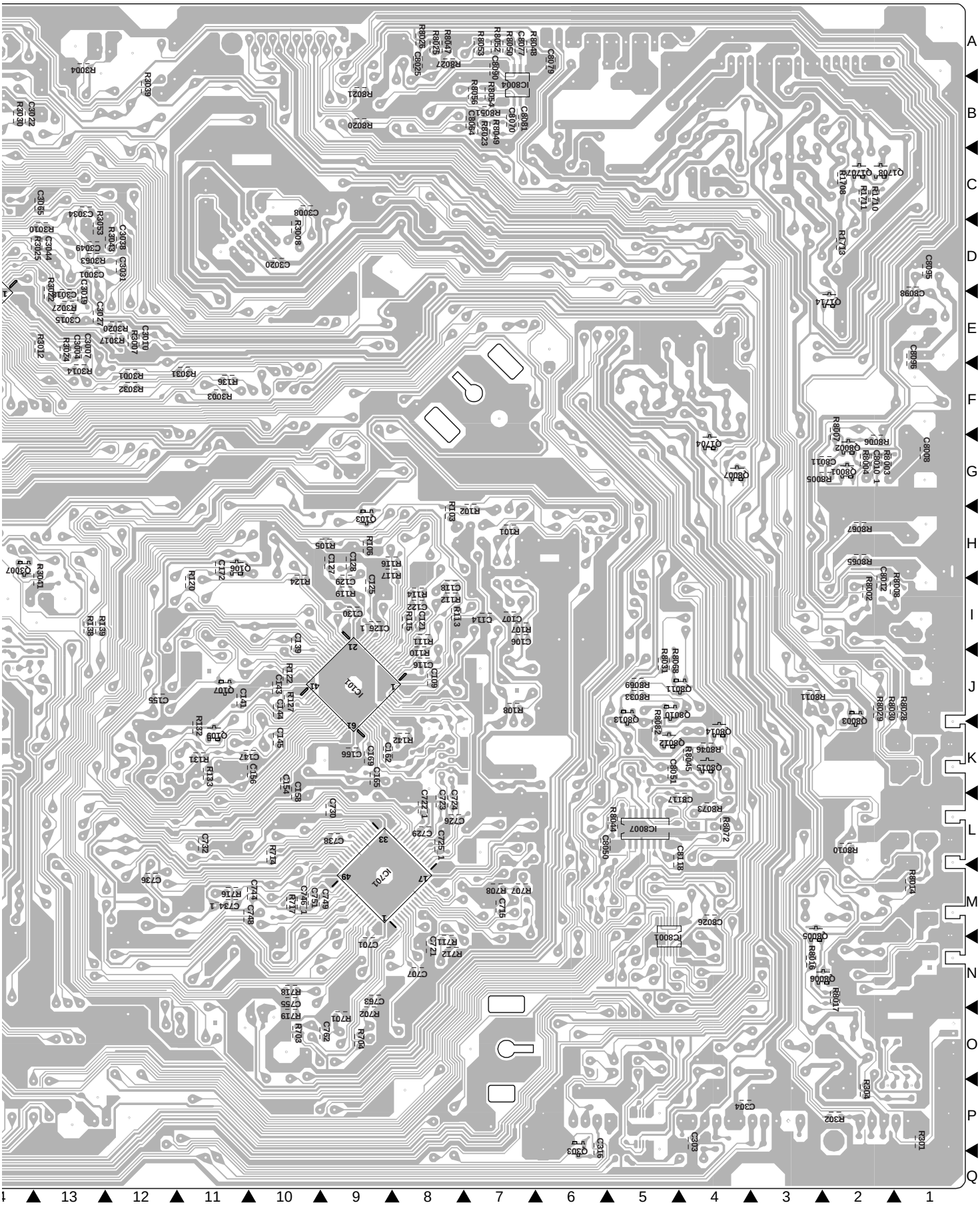

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
13
12
11
10
9
8
7
6
5
4
3
2
1
CP8002
CP8001
CP1701_1
CP3001
CP101
CP102
CP103
Q3008
Q3006
D1709
Q1702
Q1703
Q1706
Q1713
Q1701
Q1705
Q101
Q102
Q104
Q105
Q8004
D1701
D1702
D8011
D8012
D8014
D8015
D8013
D701
D3007
J8007
J8009
J8006
J8008
J8001
B8001
OS8001
SW301
TP3001
TP8001
TU301
S101Y
S101X
X101
L101
L102
L104_1
L105_1
L106_1
L107
L701_1
L702_1
L703
L704_1
L8001
L8002
L8003
L8007
L8012
L8013
L301
L302
L3003
R121
R1701
R1702
R1703
R1705
R1706
R1709
R1714
R1716
R1720
R3015
R3055
R3056
R104
R8009
R8015
R8032
R8034
C101
C102
C103
C104
C105
C106
C107
C108
C109
C110
C111
C112
C113
C114
C115
C116
C117
C118
C119
C120
C121
C122
C123
C124
C125
C126
C127
C128
C129
C130
C131
C132
C133
C134
C135
C136
C137
C138
C139
C140

PRINTEND CIRUIT BOARDS

VCR MT(CHIP PARTS)

SOLDER SIDE





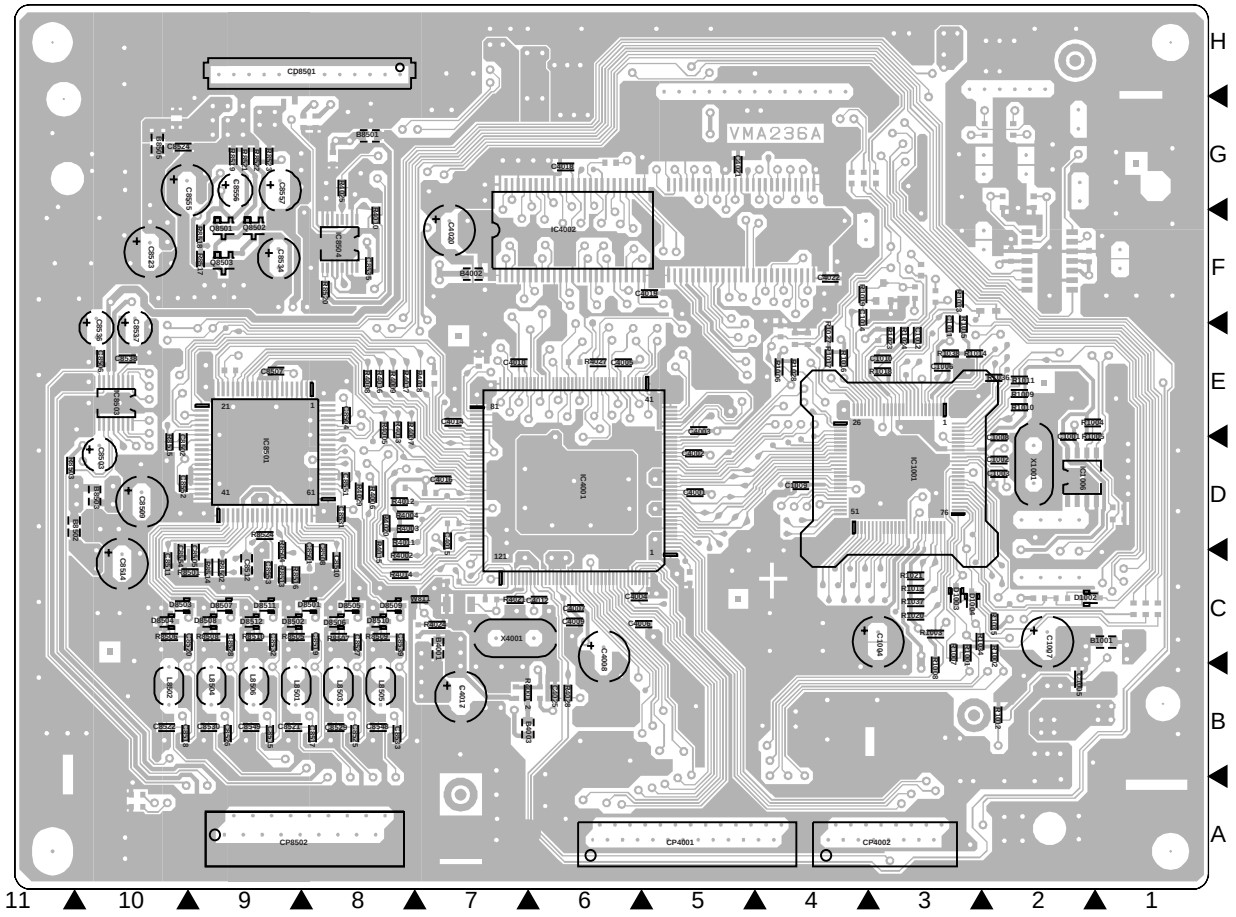
COMPONENT PARTS LOCATION GUIDE <VCR MT>

REF.NO.	LOCATION
CAPACITOR	
C101	7H
C103	8J
C104	7J
C105	8I
C106	7I
C107	7I
C109	8J
C110	7J
C112	7K
C114	7I
C115	7I
C116	8J
C118	8I
C119	8I
C120	6H
C121	8I
C122	8I
C123	8H
C124	9I
C125	9I
C126_1	9I
C127	9H
C128	9H
C129	9I
C130	9I
C131	10H
C132	9I
C133	11J
C134	11J
C135	10I
C136	10I
C137	11I
C138	10J
C139	10I
C140	9G
C141	11J
C142	10J
C143	10J
C144	10J
C145	10K
C146	12L
C147	10K
C148	11K
C151	11K
C152	11K
C154	10K
C155	12J
C156	10K
C158	10L
C162	9K
C163	9K
C165	9K
C166	9K
C169	9K
C172	11H
C303	4P
C304	4P
C308	3O
C309	2O
C313	6O
C316	6P
C652	19F
C701	9N
C702	9N
C703	9O
C704	10O
C705	9O
C706	9N
C707	8N
C708	8O
C709	8N
C711	8M
C713	7M
C714	7M
C715	7M
C716	8M
C719	7N
C720	7L
C721	8N
C722_1	8L
C723	8L
C724	8L
C725_1	8L
C726	8L
C727	7L
C728	7L
C729	8L
C730	9L
C731	11L
C732	11L
C734_1	11M
C735	10M
C736	12M
C737	12M
C738	9L
C739	12L
C740	11L
C741	10L
C742	10L
C743	11M
C744	10M
C746_1	10M
C747	11M
C748	11M
C749	9M
C751	10M
C752	10M
C754	11N
C755	10N
C756	13N
C757	9N
C758	10N
C759	9N
C760	10N
C761	8L
C762	9O
C763	9N
C764	4O
C1702	4E
C1703	5F
C1706	2D
C1708	1B
C1713	2B
C3001	13D
C3003	9D
C3004	13E
C3007	13E
C3008	10C
C3009	15F
C3010	12E
C3013	14B
C3014	18F
C3015	13E
C3016	14B
C3017	14C
C3018	13E
C3019	13E
C3020	10D
C3021	16G
C3022	14B
C3023	18G
C3024	15F
C3025	15F
C3027	13E
C3029	9E
C3030	18H
C3031	12D
C3032	14B
C3033_1	11C
C3034	13C
C3036	15C
C3038	12D
C3039	14C
C3041	12B
C3044	13D
C3045	16F
C3046	17F
C3047	17F
C3049	13D
C3050	15F
C3052	14B
C3053	15F
C3061	16E
C3065	13C
C8008	1G
C8009	2I
C8010_1	2G
C8011	2G
C8012	2I
C8013	3J
C8015	2L
C8019	18Q
C8020	2M
C8021	2M
C8022	9B
C8023	8B
C8024	4L
C8025	8A
C8026	4M
C8027	5M
C8028	4L
C8029	4N
C8030	4L
C8031	5N
C8032	5N
C8033	5N
C8037	2I
C8038	2J
C8039	2J
C8043	4N
C8048	7C
C8050	6L
C8051	5K
C8052	5K
C8064	7B
C8065	8B
C8066	5K
C8069	6L
C8070	7B
C8077	7A
C8079	6A
C8081	7B
C8083	5M
C8086	5M
C8090	7A
C8094	1D
C8095	1D
C8096	1E
C8097	1D
C8098	1E
C8099	19N
C8100	19M
C8102	7A
C8103	8A
C8104	5I
C8105	5I
C8106	8B
C8117	4L
C8118	5L
DIODE	
D651	20L
D656	18F
D701	12H
D1701	4F
D1702	4F
D1706	5F
D1709	6B
D3001	13I
D3007	13C
D3009	16G
D8002	18P
D8004	4K
D8010	4K
D8011	3H
D8012	3H
D8013	2J
D8014	3H
D8015	3H
IC	
IC101	9J
IC701	9M
IC3001	15E
IC3003	15F
IC3099	18H
IC8001	5N
IC8004	7B
IC8007	5L
COIL	
L101	7I
L102	7J
L104_1	10H
L105_1	12J
L106_1	12K
L107	10K
L301	3O
L302	4O
L701_1	13L
L702_1	12M
L703	11N
L704_1	9L
L3003	13D
L8001	2I
L8002	1E
L8003	1I
L8007	1E
L8012	4K
L8013	4L
TRANSISTOR	
Q101	7H
Q102	8H
Q103	9H
Q104	7I
Q105	7K
Q106	11H
Q107	11J
Q109	11K
Q303	6P
Q651	16C
Q652	18E
Q653	18E
Q654	17C
Q655	18D
Q656	19C
Q657	18C
Q658	18C
Q659	17C
Q660	18D
Q661	19C
Q662	17D
Q663	17E
Q664	16D
Q665	18C
Q666	18A
Q1701	4F
Q1702	4C
Q1703	3C
Q1704	4G
Q1705	5F
Q1706	2C
Q1707	2C
Q1708	2C
Q1713	3D
Q1714	2E
Q3001	16L
Q3002	16F
Q3004	17D
Q3005	16D
Q3006	13P
Q3007	14H
Q3008	13A
Q8001	2G
Q8002	2G
Q8003	2J
Q8004	3J
Q8005	3M
Q8006	2N
Q8007	4G
Q8010	5J
Q8011	4J
Q8012	5K
Q8013	5J
Q8014	4K
Q8015	4K
RESISTOR	
R101	7H
R102	7H
R103	8H
R104	7I
R105	9H
R106	9H
R107	7I
R108	7J
R110	8J
R111	8I
R112	8I
R113	8I
R114	8I
R115	8I
R116	9H
R117	9H
R119	9I
R120	11I
R121	10H
R122	10J
R123	12J
R124	10I
R127	10J
R129	11J
R131	11K
R132	11K
R133	11K
R136	11F
R137	12J
R138	13I
R139	13I
R142	8K
R301	1P
R302	2P
R304	2P
R651	19E
R653	19L
R657	19H
R658	19H
R659	19H
R661	16C
R662	19D
R663	19D
R664	17C
R665	19D
R666	19D
R667	19C
R668	19C
R669	17C
R670	18C
R671	17C
R672	19C
R673	19C
R674	18C
R675	18C
R701	9O
R702	9O
R703	10O
R704	9O
R707	7M
R708	7M
R711	8N
R712	8N
R714	10L
R716	11M
R717	10M
R718	10N
R719	10O
R720	4O
R1701	4F
R1702	4F
R1703	4C
R1706	2C
R1708	2C
R1709	1C
R1710	2C
R1711	2C
R1713	2D
R1714	3C
R1715	5F
R1716	8C
R1720	3C
R3001	12F
R3002	18J
R3003	11F
R3004	13A
R3006	16G
R3007	12E
R3008	10D
R3009	14C
R3010	13D
R3011	18K
R3012	13E
R3013	17H
R3014	13F
R3015	13B
R3017	12E
R3019	17J
R3020	12E
R3022	13E
R3024	13E
R3025	13D
R3026	15C
R3027	13E
R3028	17H
R3029	17H
R3030	14B
R3031	11F
R3032	12F
R3033	16G
R3034	15F
R3037	17F
R3038	16A
R3039	12B
R3041	13I
R3043	12D
R3044	19G
R3045	19G
R3046	18A
R3047	19A
R3049	15G
R3050	17D
R3051	16G
R3053	13D
R3055	12B
R3056	11D
R3057	14F
R3062	15F
R3063	13D
R3083	15C
R3087	15C
R8002	2I
R8003	2G
R8004	2G
R8005	2G
R8006	2G
R8007	2G
R8008	1J
R8009	3K
R8010	2L
R8011	3J
R8014	1M
R8015	2M
R8016	3N
R8017	2N
R8019	19O
R8020	9B
R8021	9B
R8022	8B
R8023	7B
R8024	8B
R8025	8A
R8026	8A
R8027	8A
R8028	1J
R8029	2J
R8030	2J
R8031	5J
R8032	2M
R8033	5J
R8034	2M
R8044	5L
R8045	4K
R8046	4K
R8047	8A
R8048	7A
R8049	7B
R8050	7A
R8051	7B
R8052	7A
R8053	7A
R8054	7B
R8056	7B
R8057	5J
R8058	5J
R8065	2H
R8067	2H
R8068	5J
R8069	5J
R8072	4L
R8073	4L
R8082	5K
SWITCH	
SW301	1O
SW651	19G
SW652	19P
SW653	19H
SW654	19J
SW655	19K
SW3001	19N
TEST POINT	
TP101	15P
TP701	14P
TP3001	6D
TP3002	14P
TP8001	2L
OTHER	
CP101	8K
CP102	6H
CP103	10O
CP1701_1	4A
CP3001	11D
CP651	14A
CP8001	6A
CP8002	10A
J8001	1L
J8003	20O
J8004	20N
J8005	20M
J8006	1J
J8007	1G
J8008	1K
J8009	1H
OS651	20F
OS8001	1E
S101X	3O
S101Y	10N
TU301	1P
V651	19D
X101	10K
X3001	15F
X3002	17F
X3003	14C

PRINTEND CIRUIT BOARDS

MPEG MT

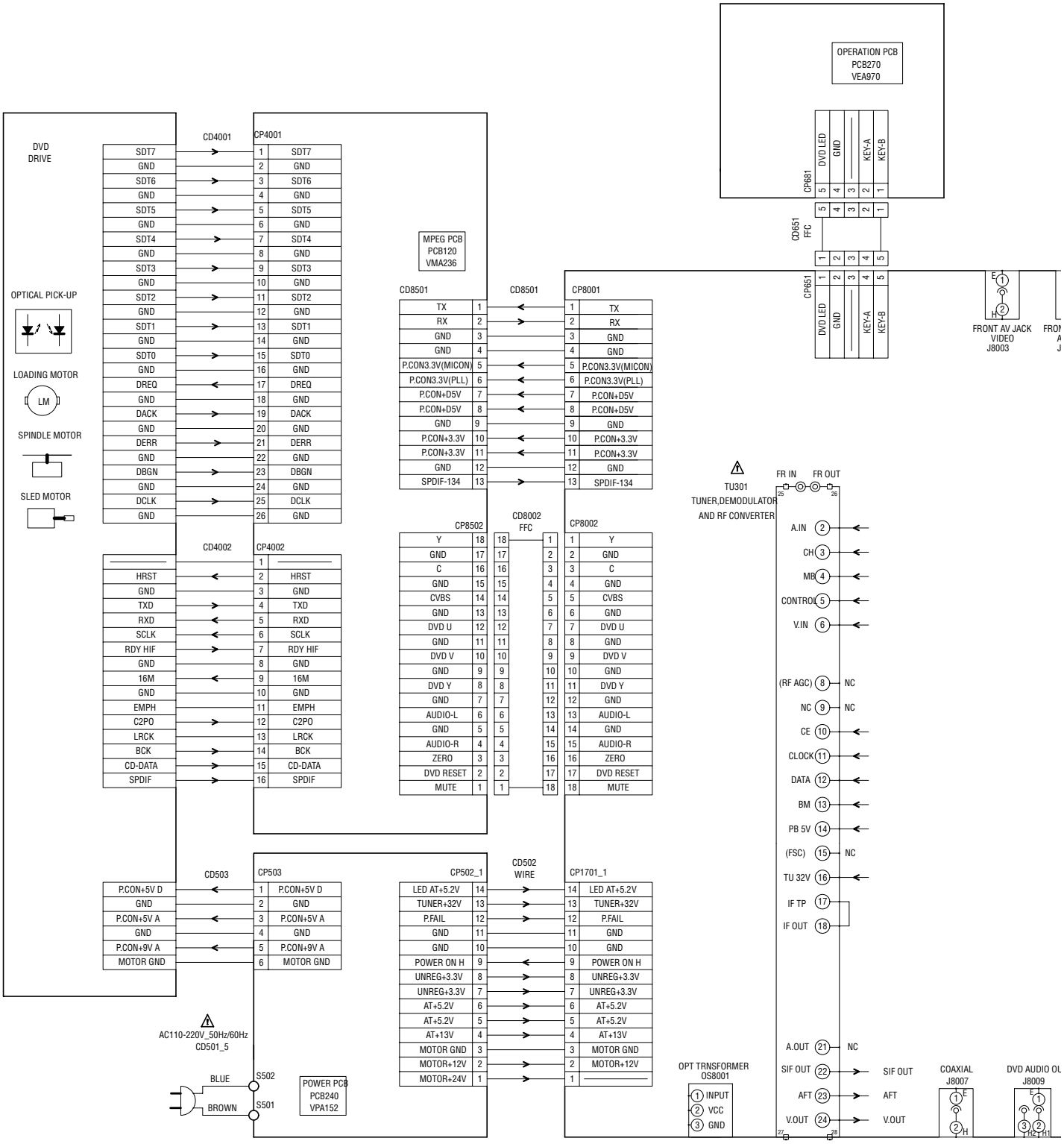
TOP SIDE



COMPONENT PARTS LOCATION GUIDE <MPEG MT>

REF.NO.	LOCATION
CAPACITOR	
C1001	2D
C1002	2D
C1003	2D
C1004	3C
C1005	2B
C1006	3E
C1007	2C
C1008	2D
C1009	4D
C1010	3E
C1011	3E
C1012	3E
C1014	4F
C4001	5D
C4002	5D
C4003	5E
C4004	6C
C4005	6E
C4006	5C
C4007	6C
C4008	6C
C4009	6C
C4010	7E
C4012	6C
C4014	7E
C4015	7D
C4016	7D
C4017	7B
C4018	6G
C4019	5F
C4020	7F
C4021	5G
C4022	4F
C4025	6B
C8501	8C
C8502	10D
C8503	10D
C8504	8E
C8505	9C
C8506	10E
C8507	9E
C8508	8C
C8509	10D
C8510	8C
C8511	10C
C8512	9C
C8514	10C
C8515	9B
C8517	8B
C8518	10B
C8519	8C
C8520	10C
C8521	9B
C8522	10B
C8523	10F
C8524	10G
C8525	8B
C8526	9B
C8527	8C
C8528	9C
C8529	8B
C8530	9B
C8531	8D
C8532	9C
C8533	8B
C8534	9F
C8535	8F
C8536	10F
C8537	10F
C8538	10E
C8539	8C
C8548	8B
C8549	9B
C8551	8D
C8552	10D
C8553	9C
C8554	10C
C8555	10G
C8556	9G
C8557	9G
DIODE	
D1002	2C
D1003	3C
D1004	3C
D8501	8C
D8502	9C
D8503	10C
D8504	10C
D8505	8C
D8506	8C
D8507	9C
D8508	9C
D8509	8C
D8510	8C
D8511	9C
D8512	9C
IC	
IC1001	3D
IC1006	2D
IC4001	6D
IC4002	6F
IC8501	9D
IC8503	10E
IC8504	8F
COIL	
L8501	9B
L8502	10B
L8503	8B
L8504	9B
L8505	8B
L8506	9B
TRANSISTOR	
Q8501	9F
Q8502	9F
Q8503	9F
RESISTOR	
R1001	3C
R1002	2C
R1003	3C
R1004	2E
R1005	2D
R1006	4E
R1007	3C
R1008	3B
R1009	2E
R1010	2E
R1011	2E
R1012	2B
R1013	3C
R1014	3E
R1015	3E
R1016	4E
R1017	4E
R1018	3E
R1019	4F
R1020	3C
R1021	3C
R1023	3E
R1024	3E
R1027	4E
R1028	4E
R1033	3F
R1034	3C
R1035	2C
R1036	2E
R1037	3C
R1038	3E
R4001_2	7B
R4002	8C
R4003	8D
R4004	8D
R4005	8E
R4006	8D
R4007	8E
R4008	8E
R4009	8E
R4010	8F
R4011	8D
R4012	8D
R4013	8E
R4014	8C
R4015	8D
R4016	8E
R4017	8E
R4018	7E
R4020	8D
R4021	7C
R4024	7C
R4025	8G
R4027	6E
R4028	6B
R4029	8D
R8501	9C
R8502	9C
R8503	11D
R8504	9C
R8505	9C
R8506	10C
R8507	8C
R8508	9C
R8509	8C
R8510	9C
R8513	9C
R8514	9C
R8515	10D
R8516	9C
R8517	9F
R8518	9F
R8519	9G
R8520	8F
R8521	9G
R8522	9G
R8523	9G
R8524	9D
OTHER	
B4001	7C
B4002	7F
B4003	7B
B8501	8G
B8502	11D
B8503	10D
B8505	10G
CD8501	8H
CP4001	6A
CP4002	4A
CP8502	9A
X1001	2D
X4001	7C

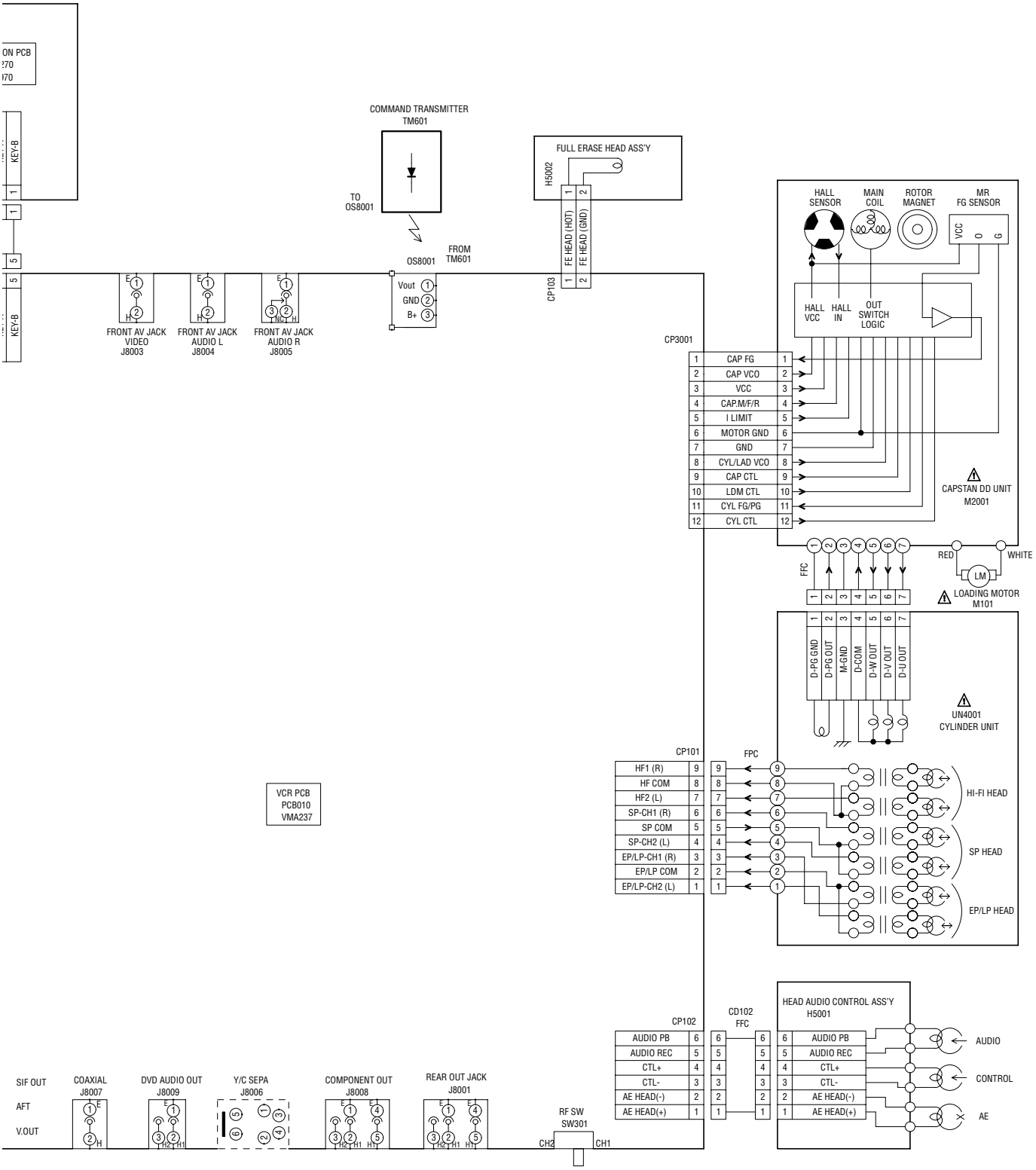
INTERCONNECTION I



CAUTION: SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY,USE ONES DESCRIBED IN PARTS LIST ONLY 。

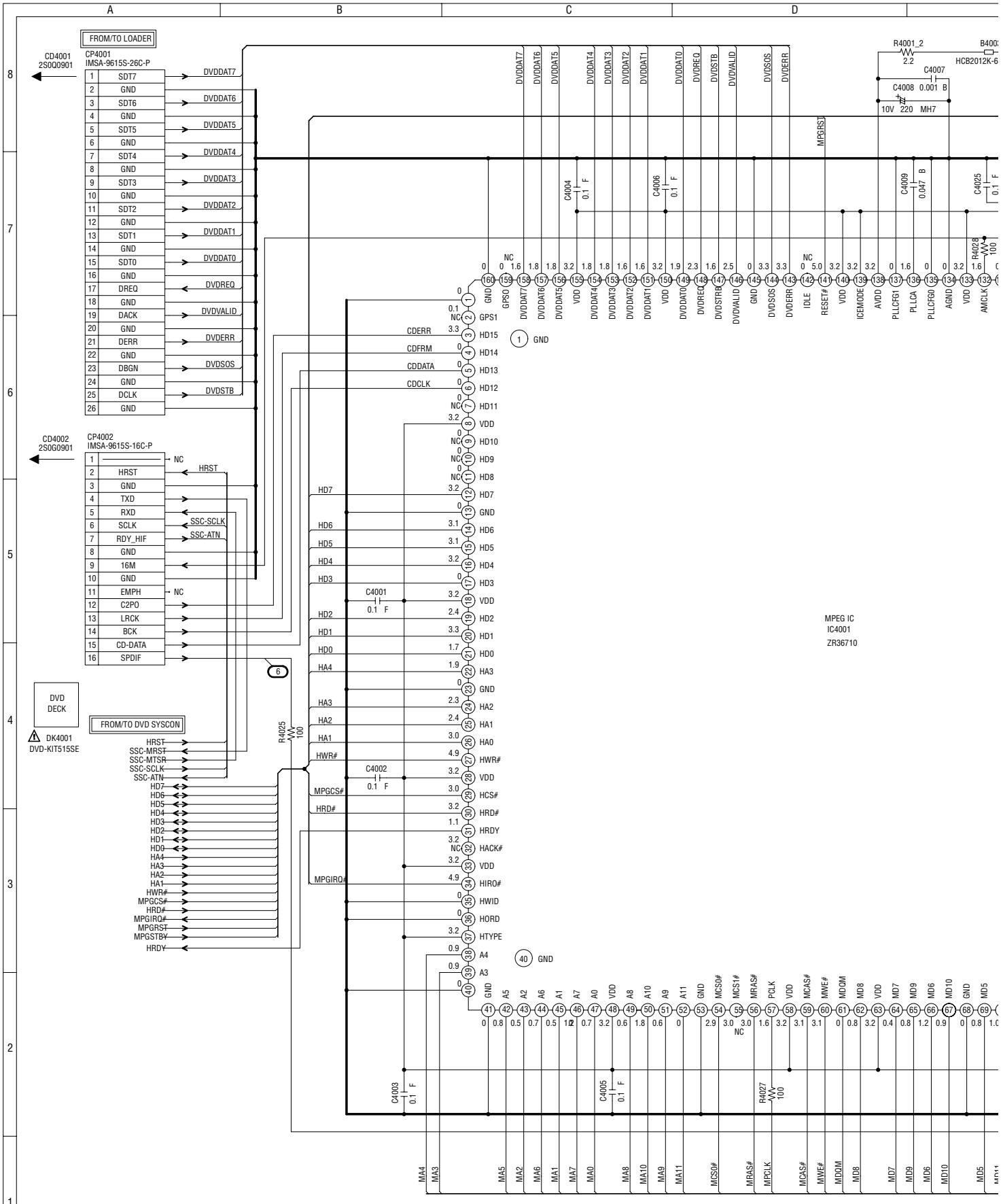
ATTENTION: LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES。

RCONNECTION DIAGRAM



'IECES REPAREES PAR UN ⚠ ETANT
iEREUSES AN POINT DE VUE SECURITE
LISER QUE CELLS DECRITES
LA NOMENCLATURE DES PIECES。

NOTE: THIS INTERCONNECTION DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE 。

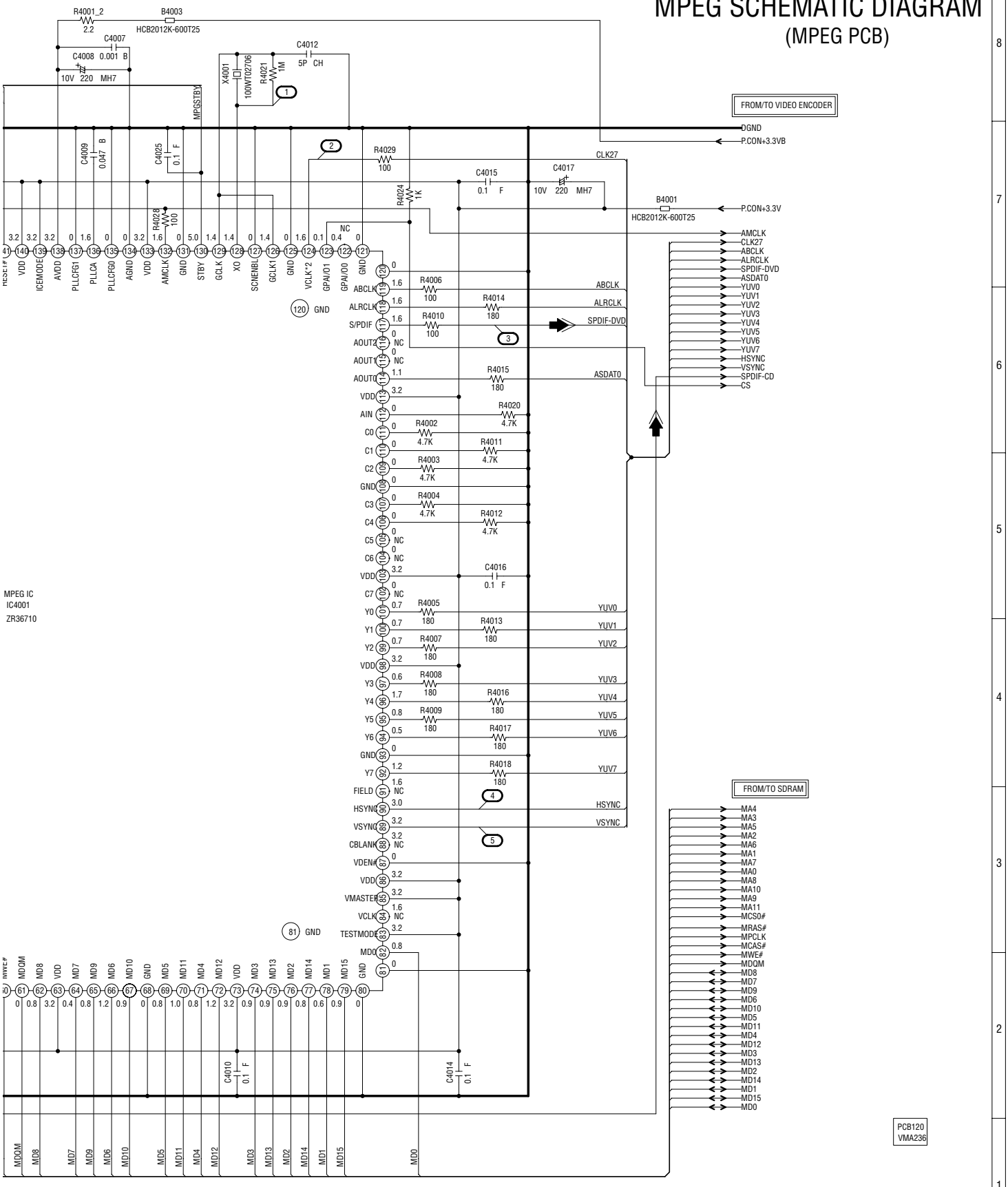


ATTENTION: LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES。

CAUTION: SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY,USE ONES DESCRIBED IN PARTS LIST ONLY 。

NOTE: THIS SCHEMATIC DI
OF PRINTING AND S

MPEG SCHEMATIC DIAGRAM
(MPEG PCB)



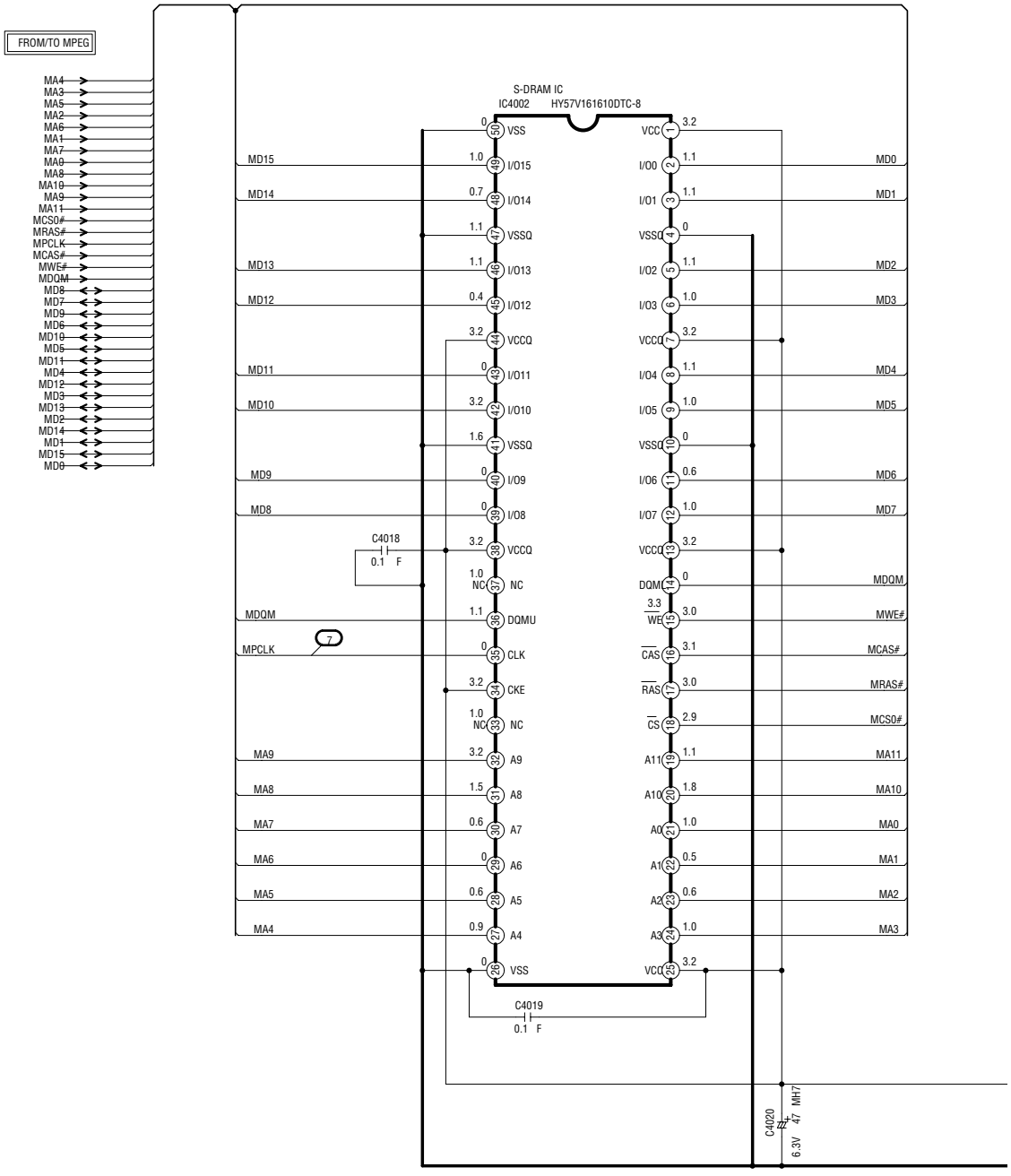
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE。

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK。

DIGITAL AUDIO SIGNAL(PB)

SDRAM SCHEMATIC I

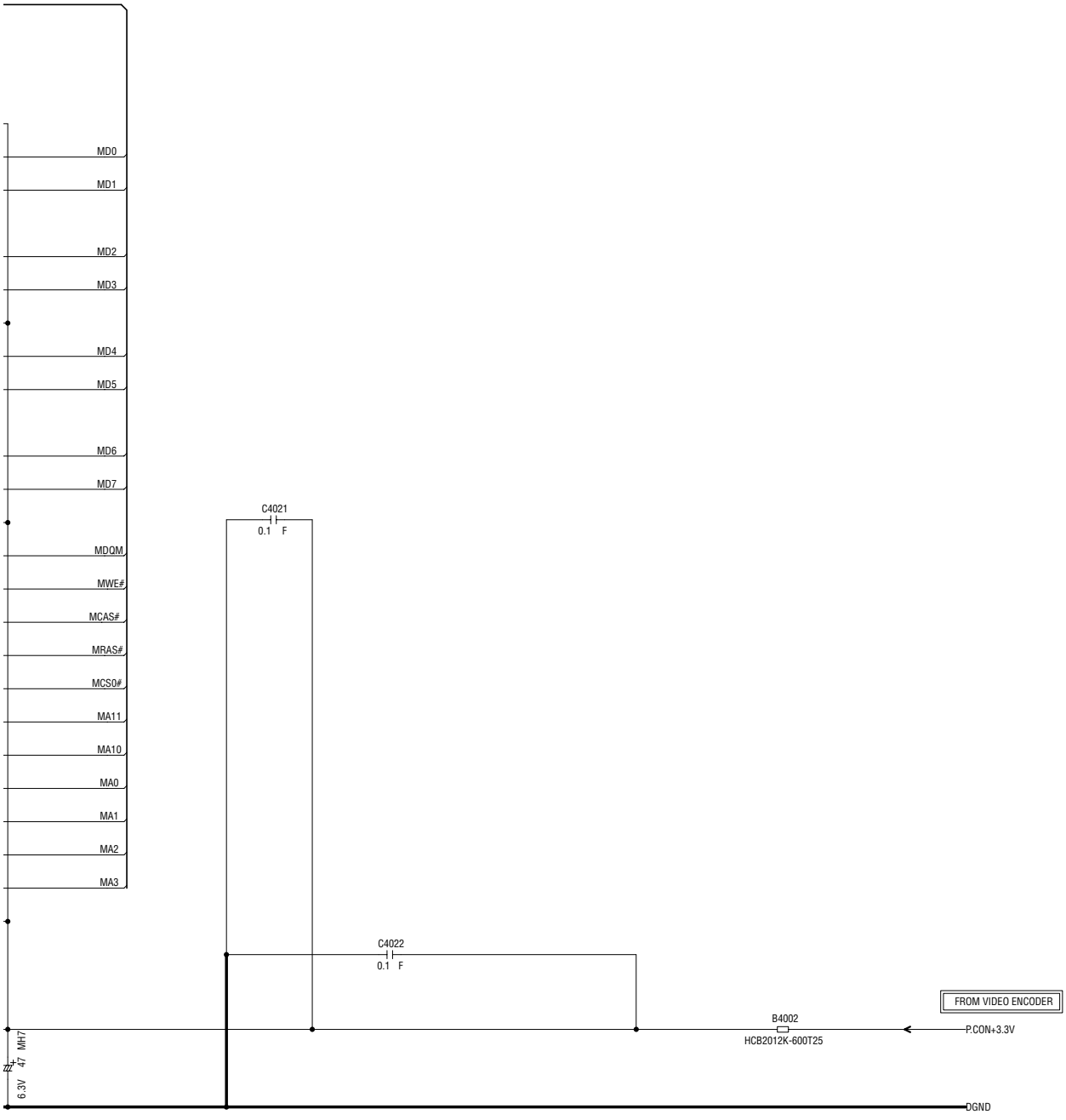
(MPEG PCB)



NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTIC

M SCHEMATIC DIAGRAM

(MPEG PCB)



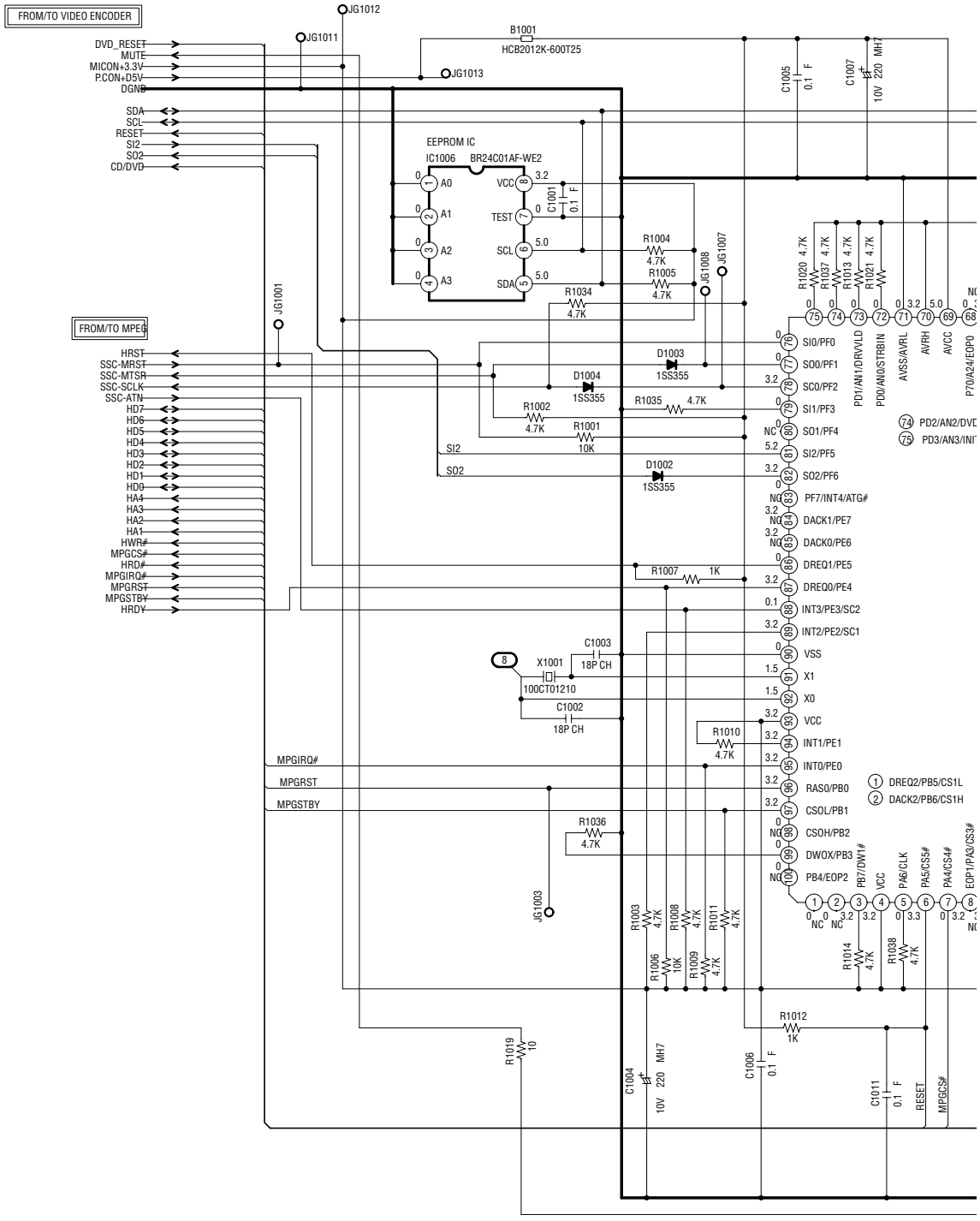
PCB120
VMA236

TIC DIAGRAM IS THE LATEST AT THE TIME
AND SUBJECT TO CHANGE WITHOUT NOTICE 。

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK。

DVD SYSCON SCHEMATIC

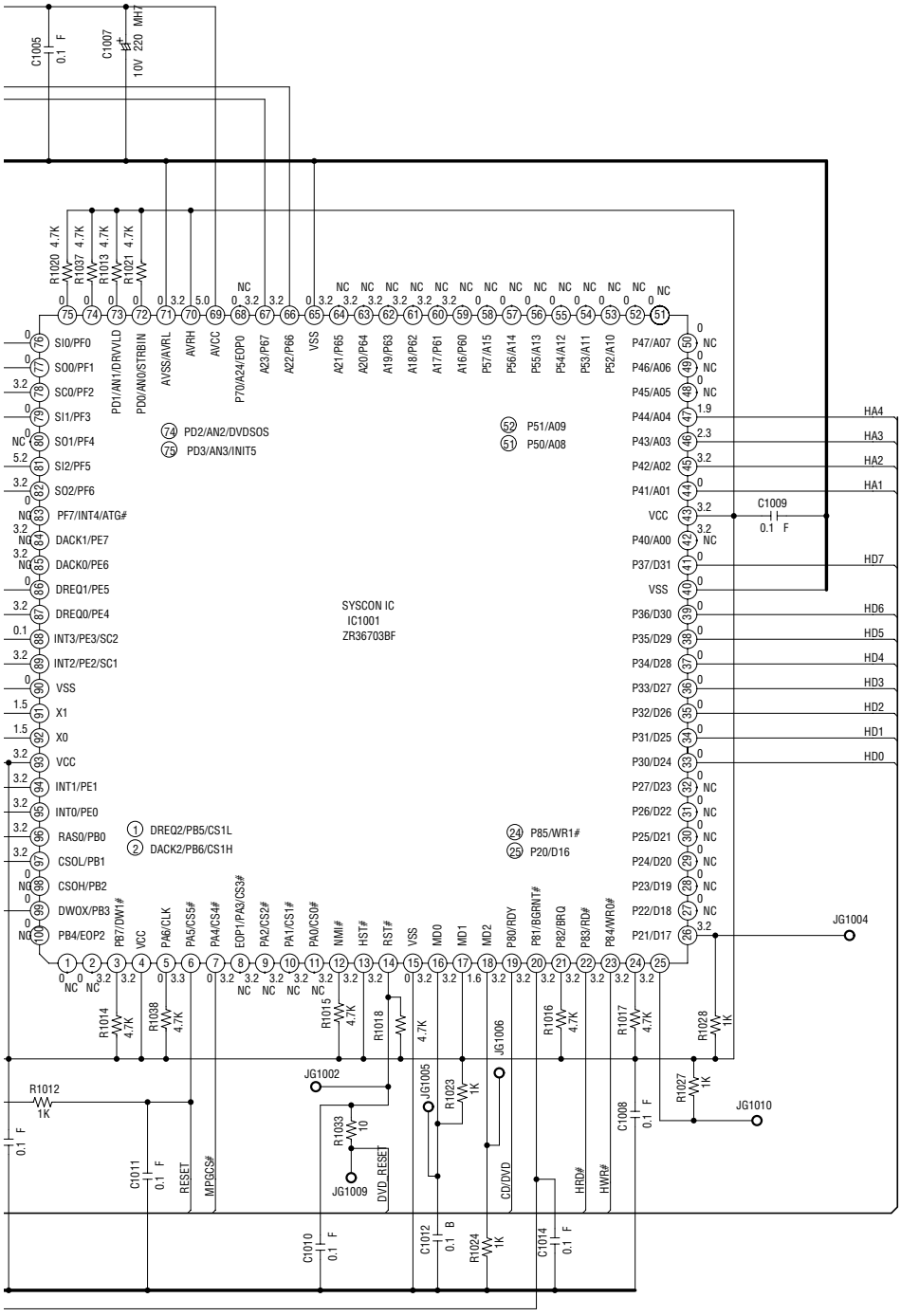
(MPEG PCB)



NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE。

;ON SCHEMATIC DIAGRAM

(MPEG PCB)

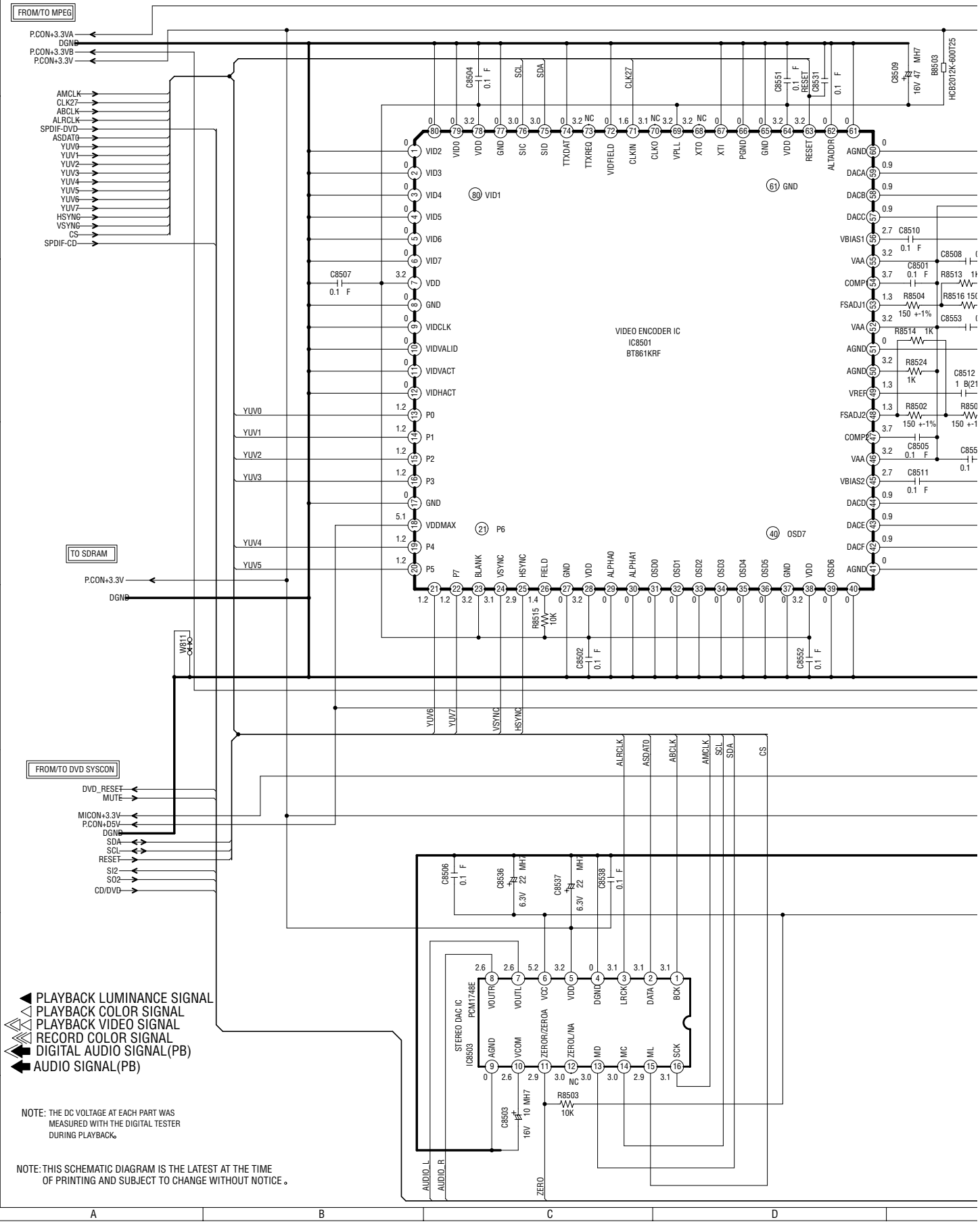


PCB120
VMA236

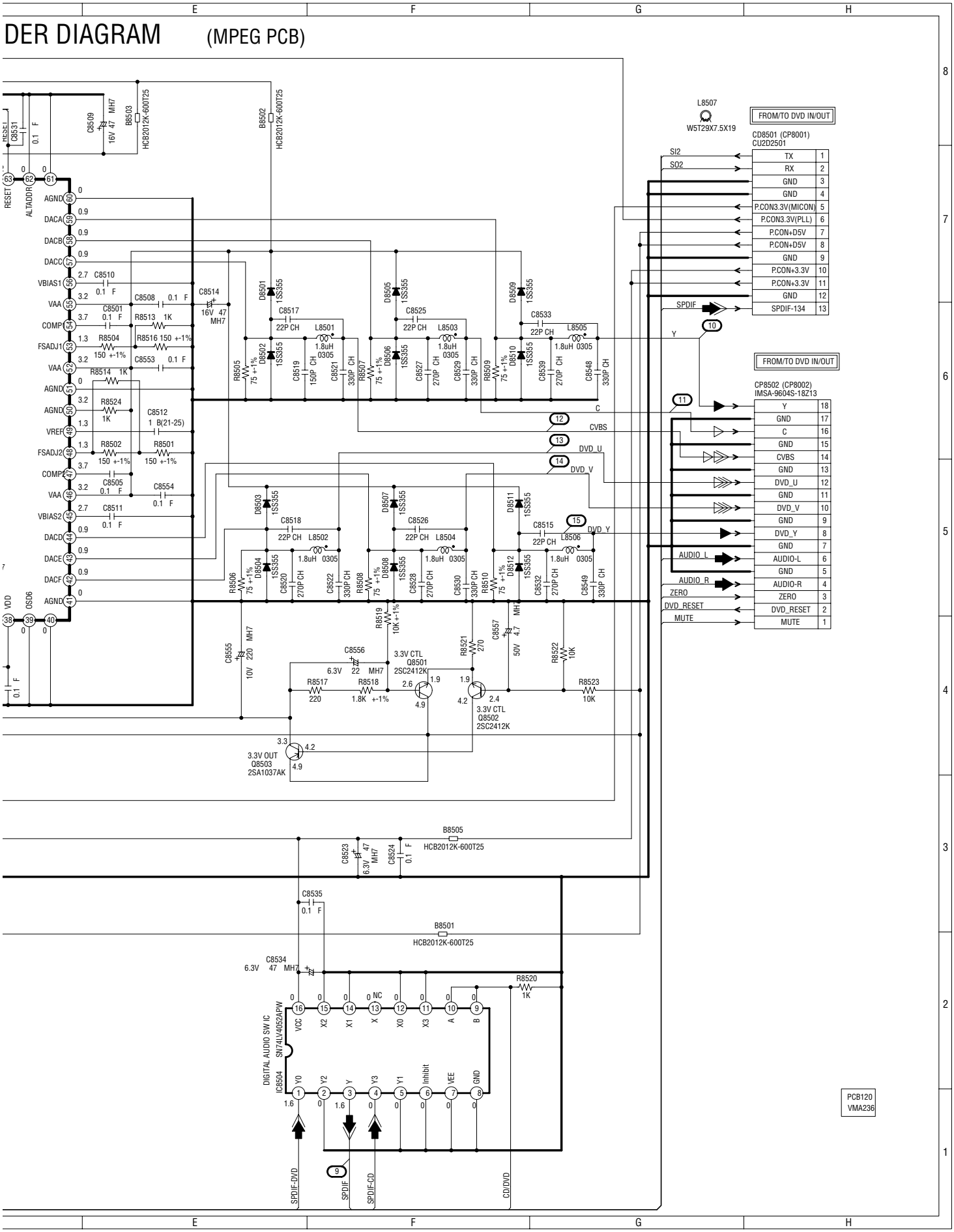
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK。

ÉST AT THE TIME
É WITHOUT NOTICE 。

VIDEO ENCODER DIAGRAM

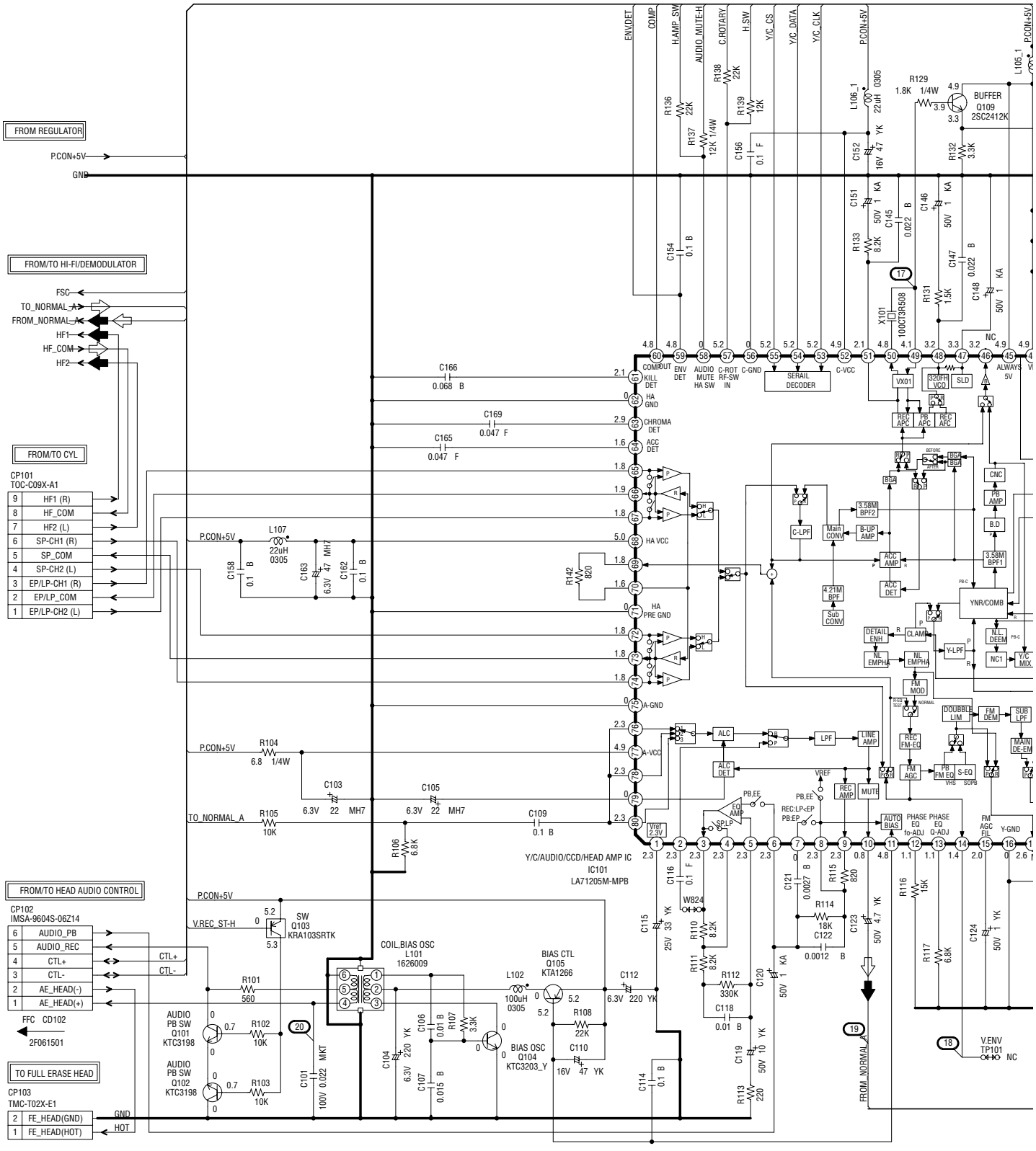


DER DIAGRAM (MPEG PCB)



Y/C/AUDIO/CCD/HEAD AMP SCHE

(VCR PCB)

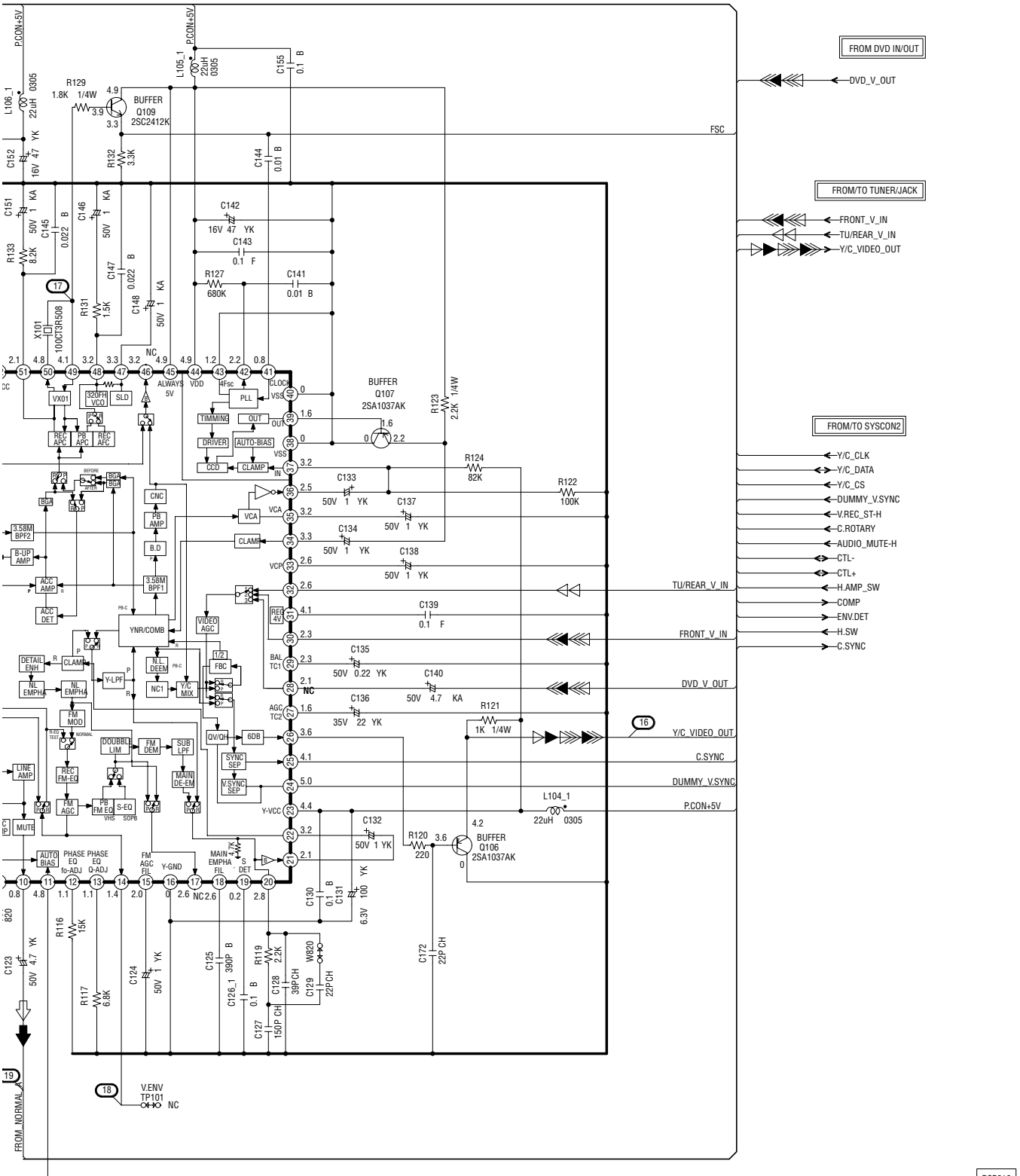


NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE。

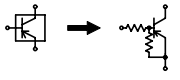
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK。

EAD AMP SCHEMATIC DIAGRAM

(VCR PCB)



CAUTION: DIGITAL TRANSISTOR

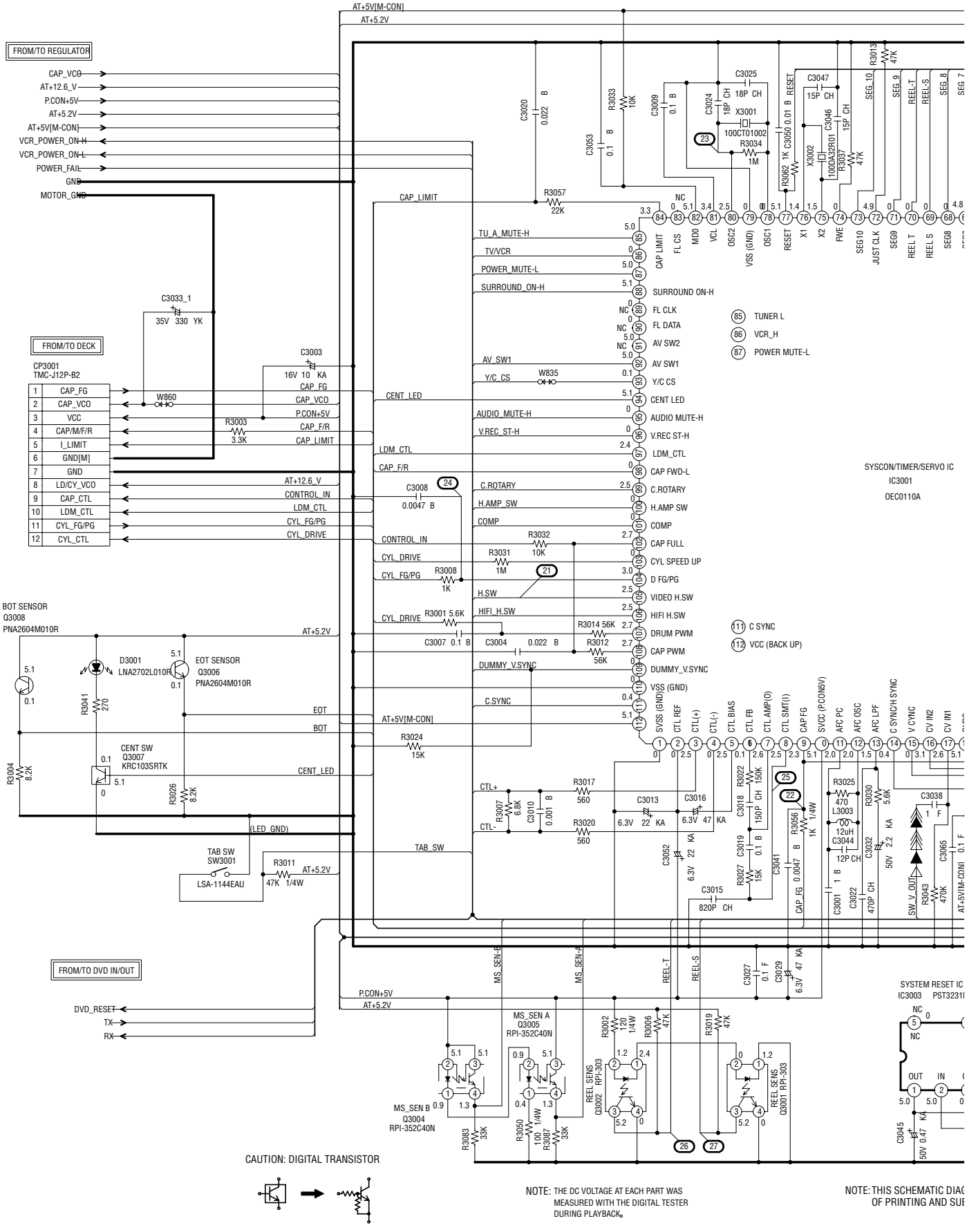


PART WAS
ITAL TESTER

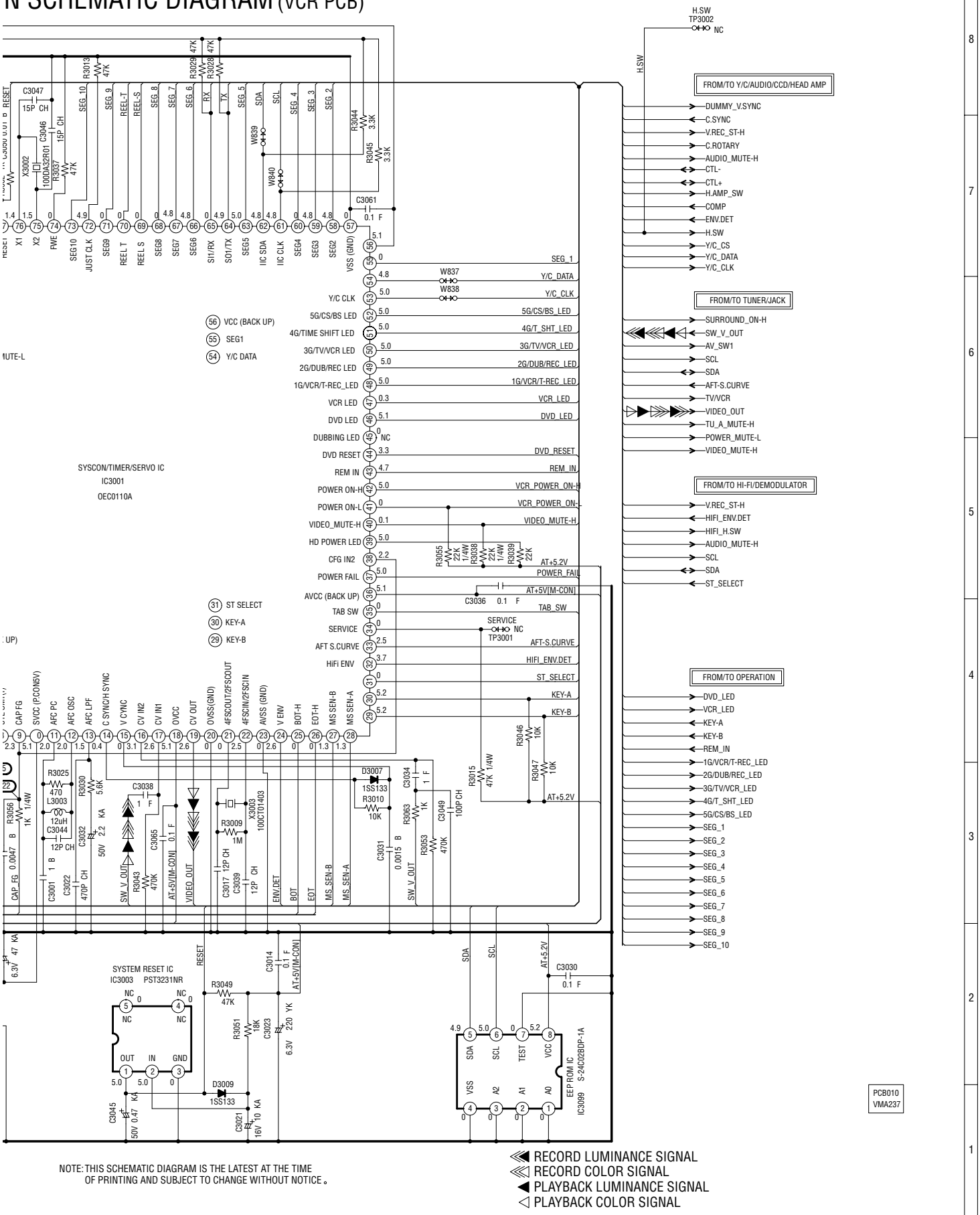
RECORD COLOR SIGNAL
RECORD LUMINANCE SIGNAL
AUDIO SIGNAL(REC)
AUDIO SIGNAL(PB)
PLAYBACK COLOR SIGNAL
PLAYBACK LUMINANCE SIGNAL
TUNER VIDEO SIGNAL

PCB010
VMA237

VCR SYSCON SCHEMATIC D



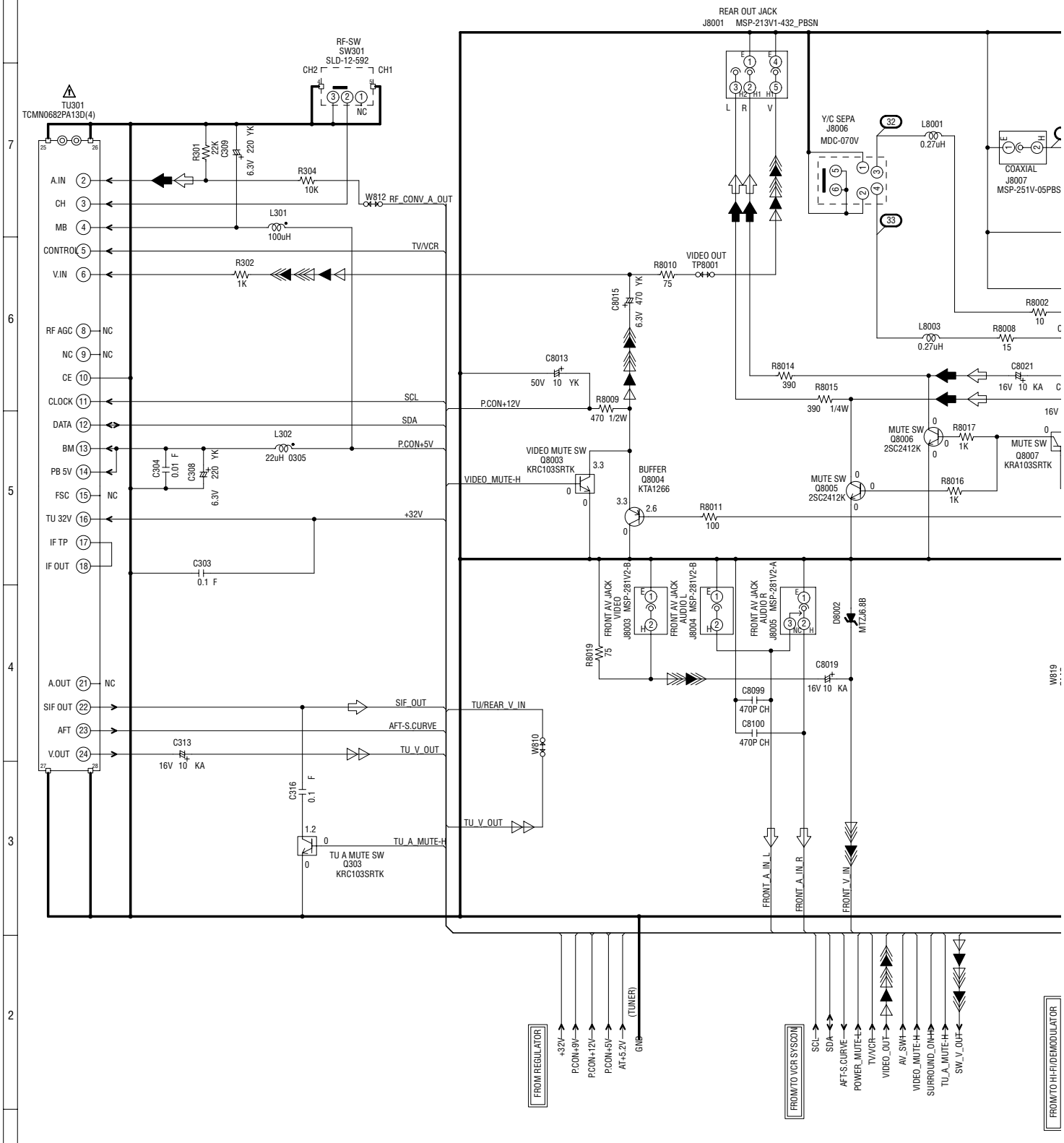
N SCHEMATIC DIAGRAM (VCR PCB)



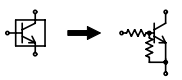
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE。

◀◀ RECORD LUMINANCE SIGNAL
◁◁ RECORD COLOR SIGNAL
◀ PLAYBACK LUMINANCE SIGNAL
◁ PLAYBACK COLOR SIGNAL

TUNER/JACK SCHEMATIC I
(VCR PCB)



CAUTION: DIGITAL TRANSISTOR

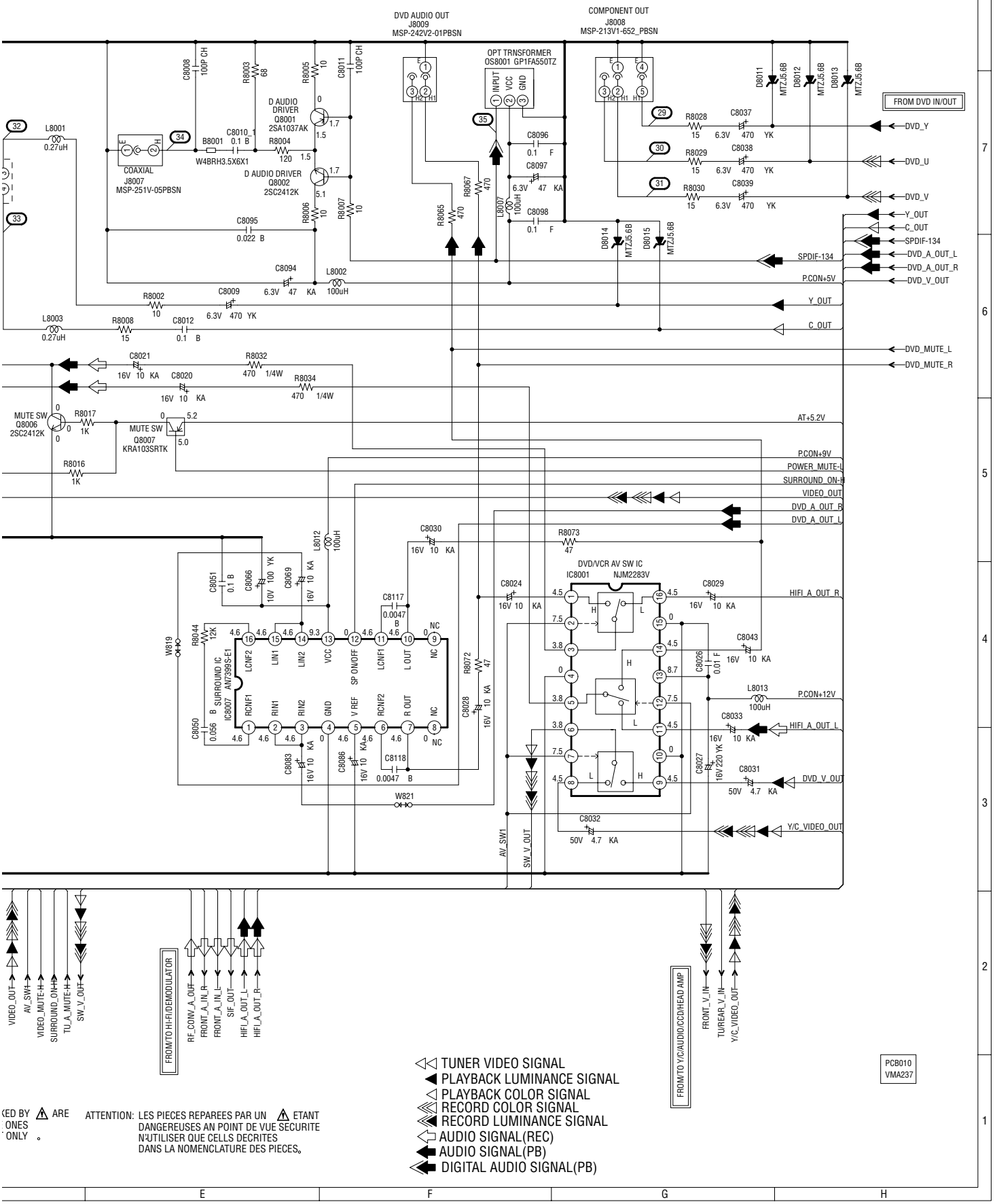


NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE。

CAUTION: SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY,USE ONES DESCRIBED IN PARTS LIST ONLY 。

ATTENTION: LES PIEC
DANGERE
N'UTILISE
DANS LA

CK SCHEMATIC DIAGRAM
(VCR PCB)



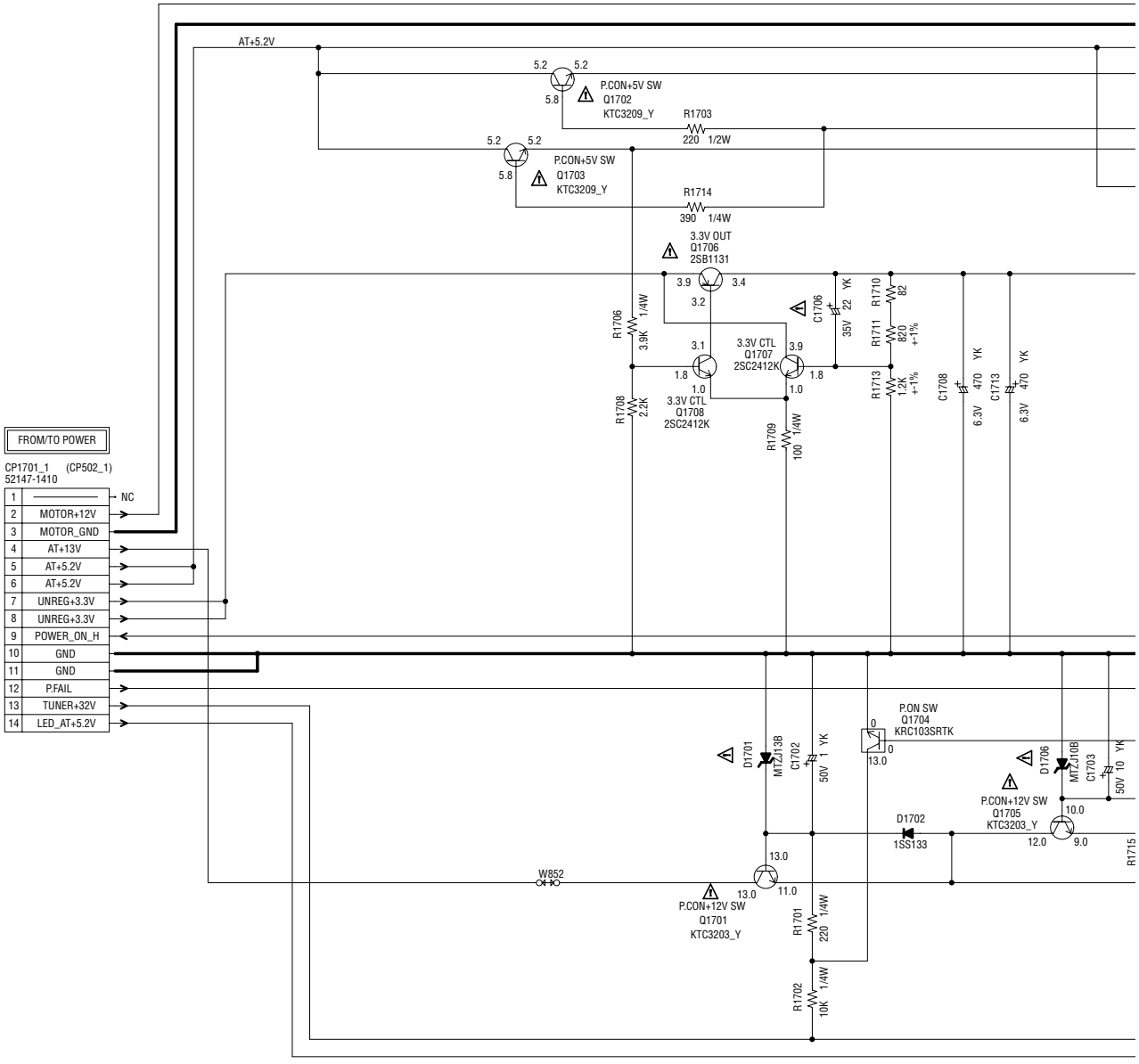
TUNER VIDEO SIGNAL
PLAYBACK LUMINANCE SIGNAL
PLAYBACK COLOR SIGNAL
RECORD COLOR SIGNAL
RECORD LUMINANCE SIGNAL
AUDIO SIGNAL(REC)
AUDIO SIGNAL(PB)
DIGITAL AUDIO SIGNAL(PB)

(ED BY ⚠ ARE
ONES
ONLY 。

ATTENTION: LES PIECES REPAREES PAR UN ⚠ ETANT
DANGEREUSES AN POINT DE VUE SECURITE
N'UTILISER QUE CELLS DECRITES
DANS LA NOMENCLATURE DES PIECES。

REGULATOR SCHEMATI

(VCR PCB)



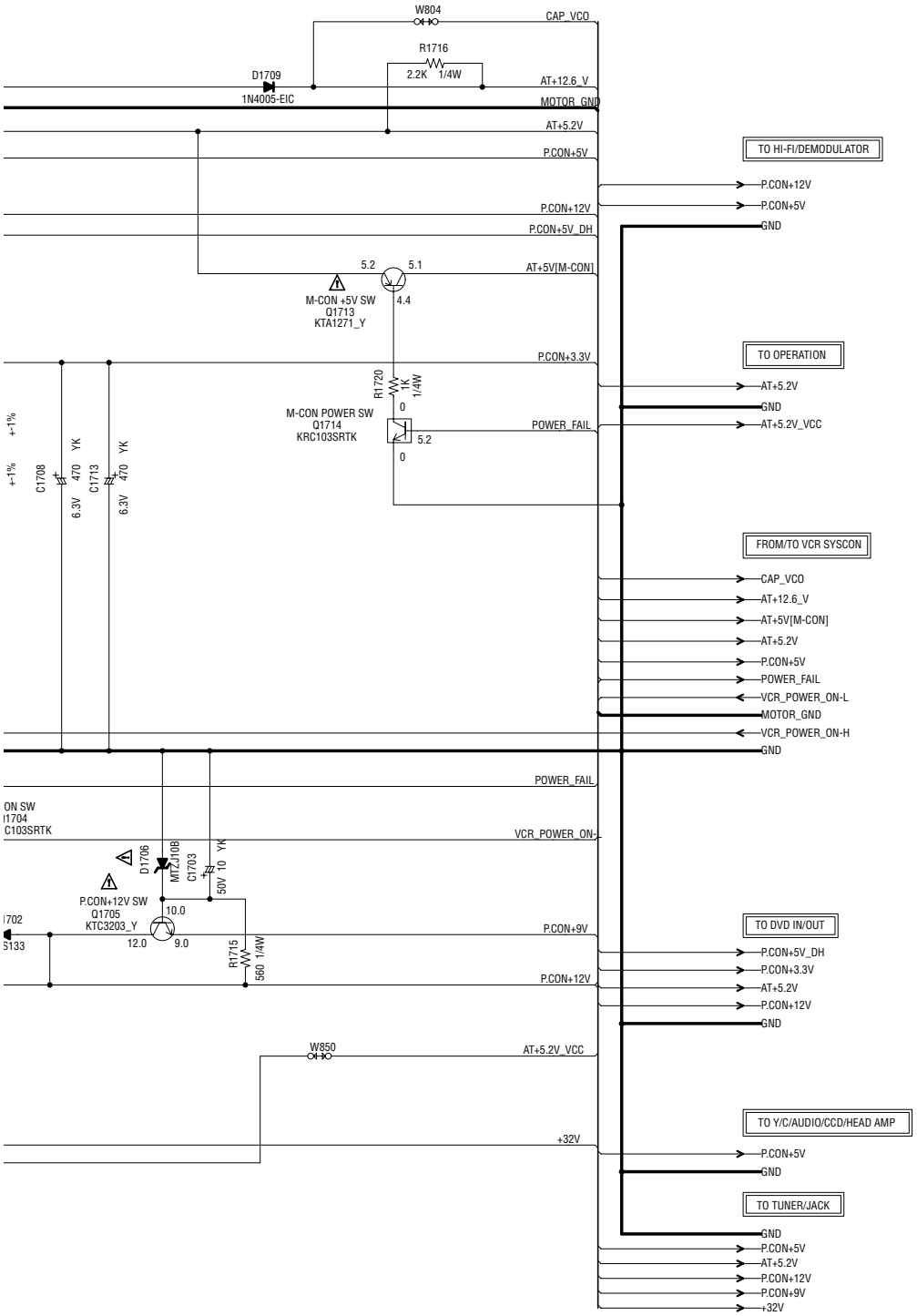
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK。

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE 。

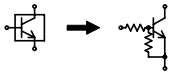
ATTENTION: LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES。

ATOR SCHEMATIC DIAGRAM

(VCR PCB)



CAUTION: DIGITAL TRANSISTOR

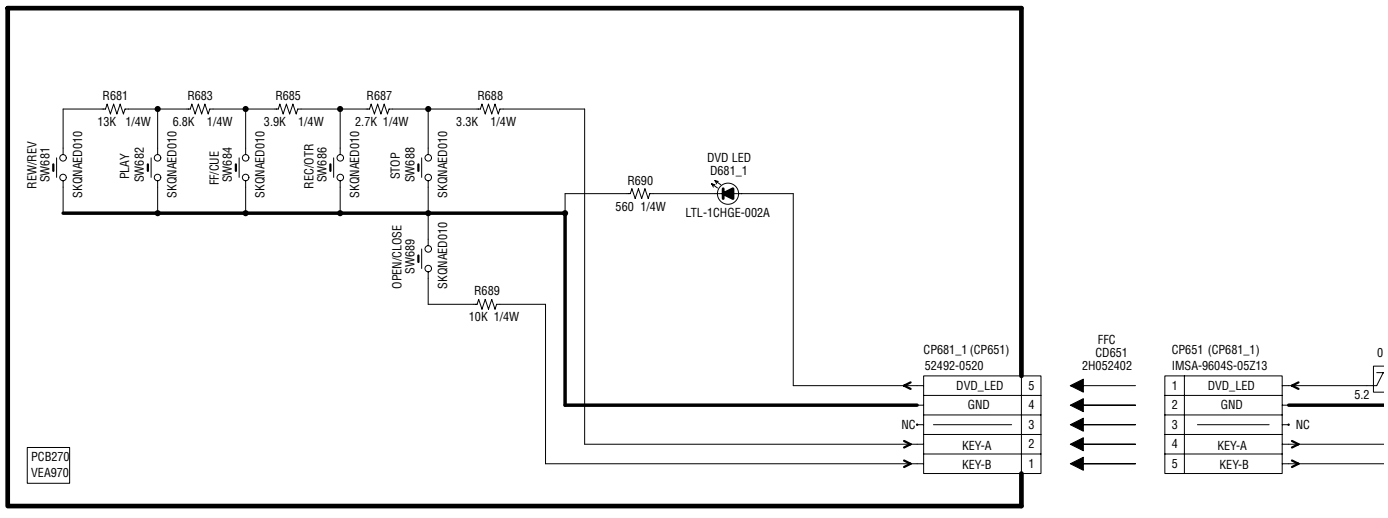


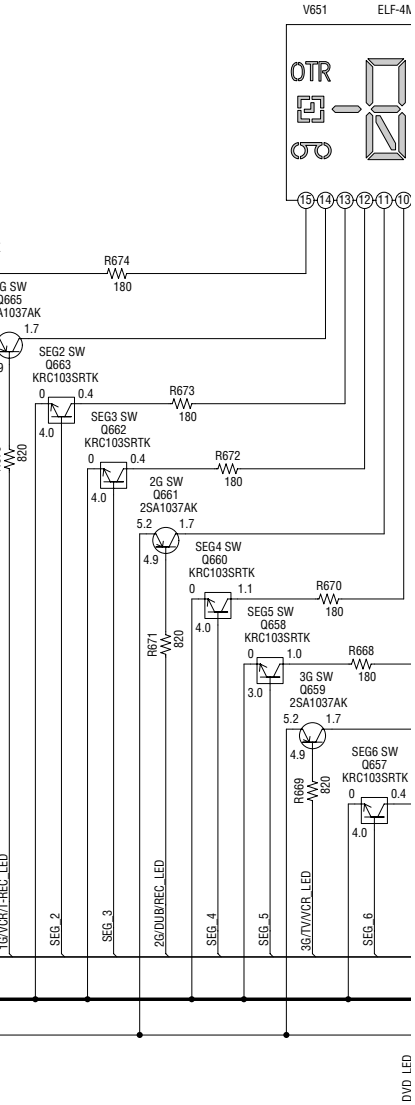
PIECES REPAREES PAR UN ⚠ ETANT
GEREUSES AN POINT DE VUE SECURITE
ILISER QUE CELLS DECRITES
S LA NOMENCLATURE DES PIECES。

CAUTION: SINCE THESE PARTS MARKED BY ⚠ ARE
CRITICAL FOR SAFETY,USE ONES
DESCRIBED IN PARTS LIST ONLY 。

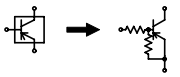
OPERATION SCHEMATIC DIAGRAM

(VCR PCB)

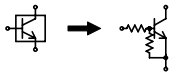


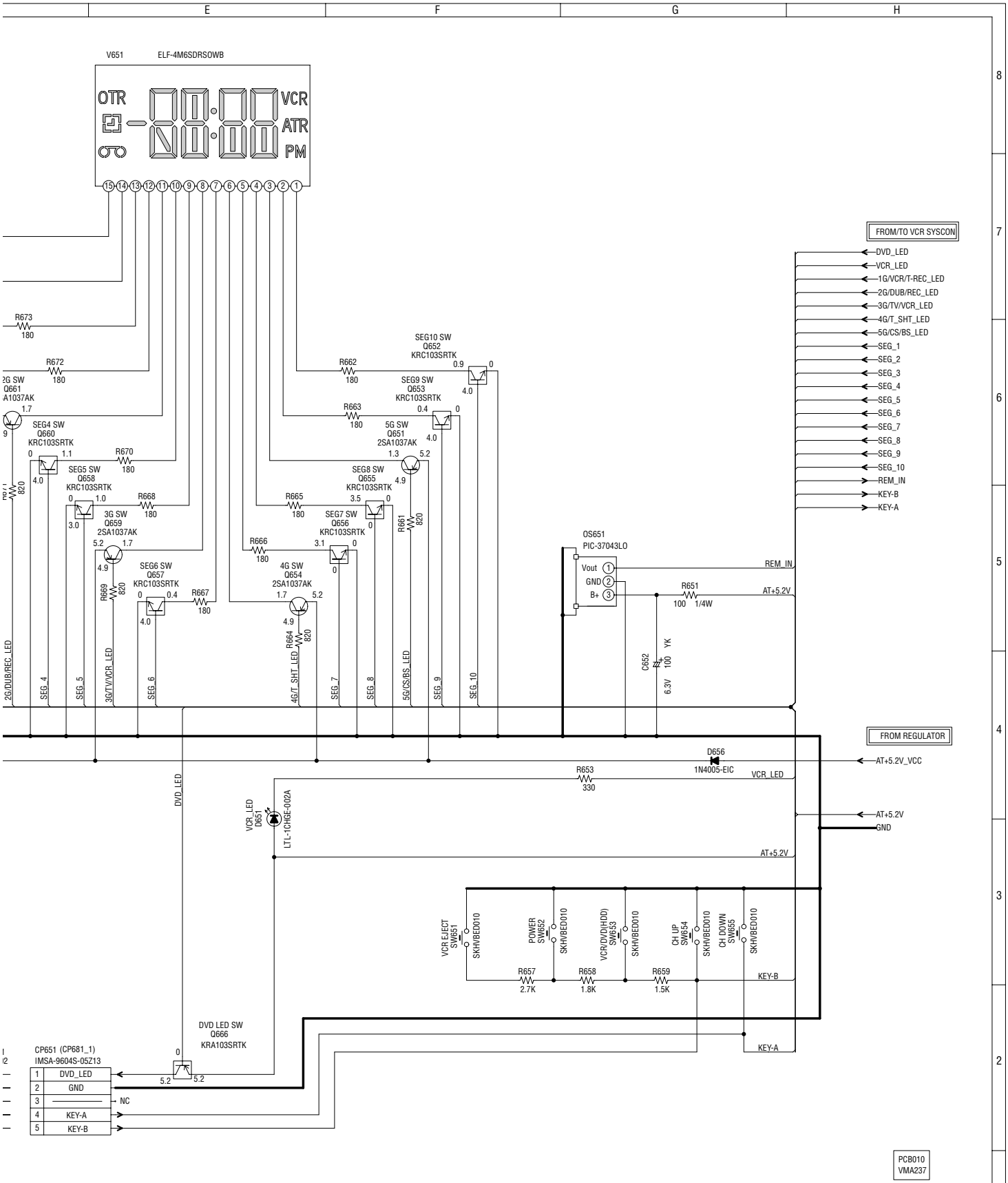


CAUTION: DIGITAL TRANSISTOR



CAUTION: DIGITAL TRANSISTOR





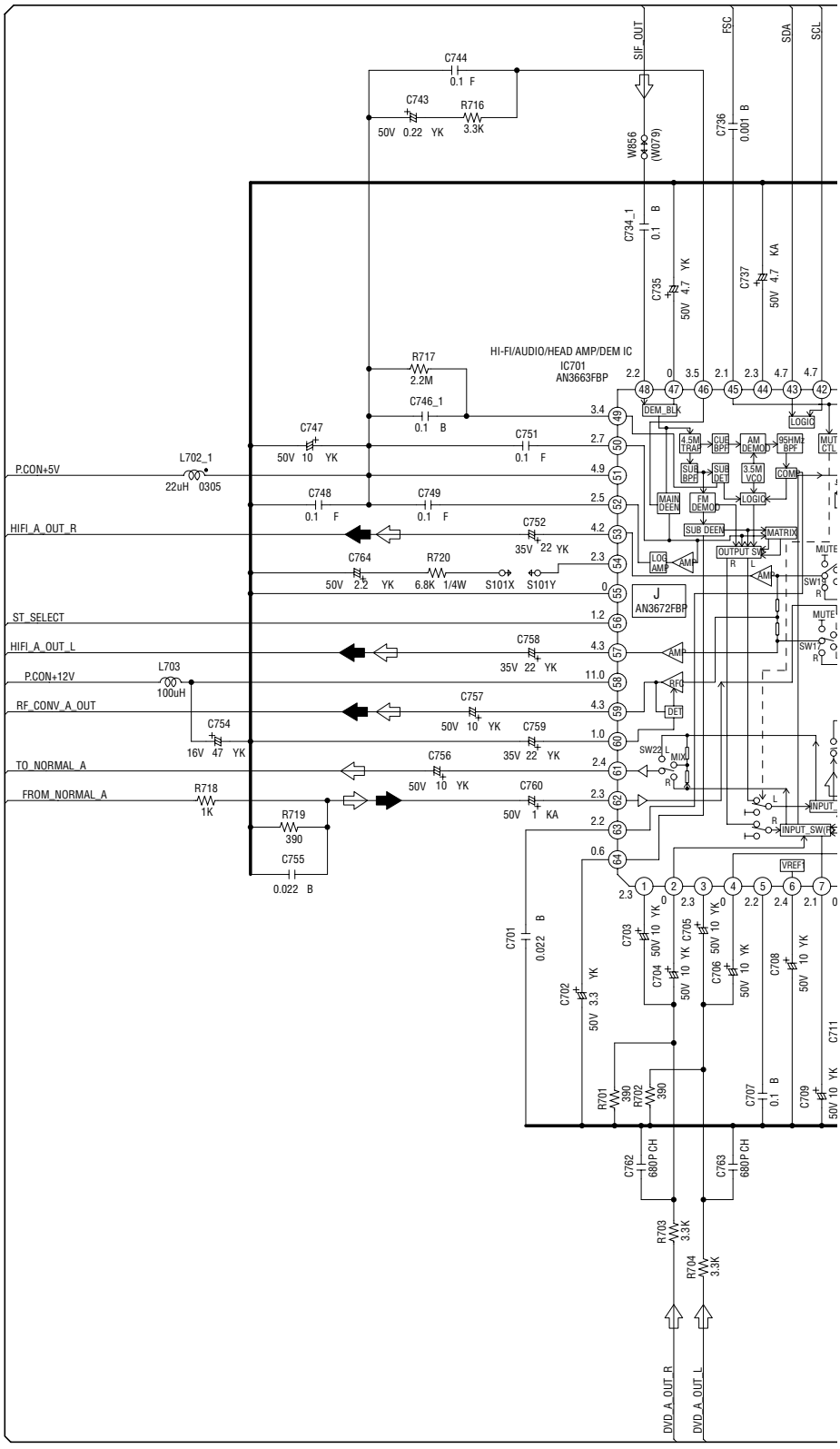
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK。

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE 。

PCB010
VMA237

Hi-Fi/DEMODULATOR SCHEM

(VCR PCB)

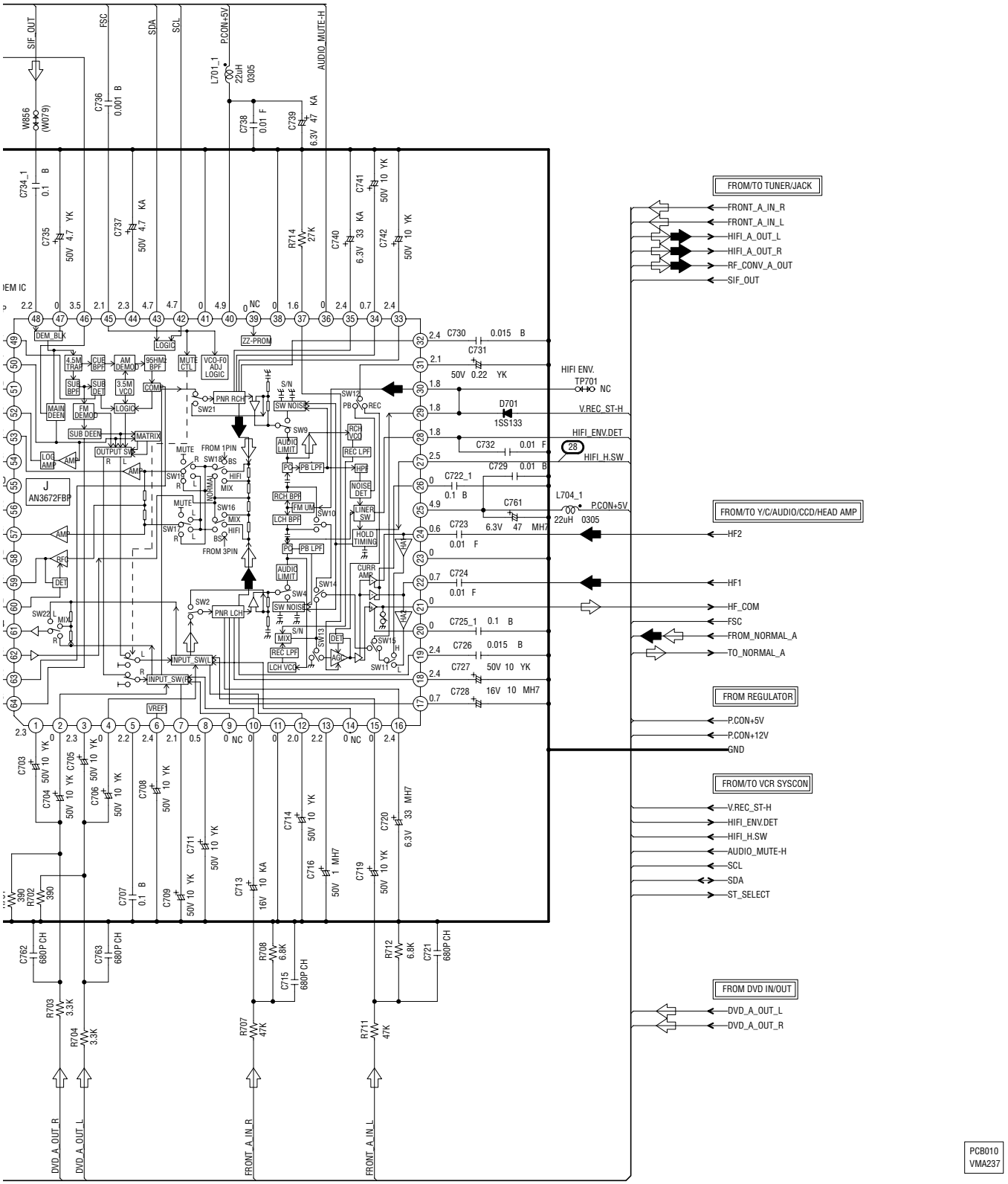


NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE OF PRINTING AND SUBJECT TO CHANGE WITHOUT

ULATOR SCHEMATIC DIAGRAM

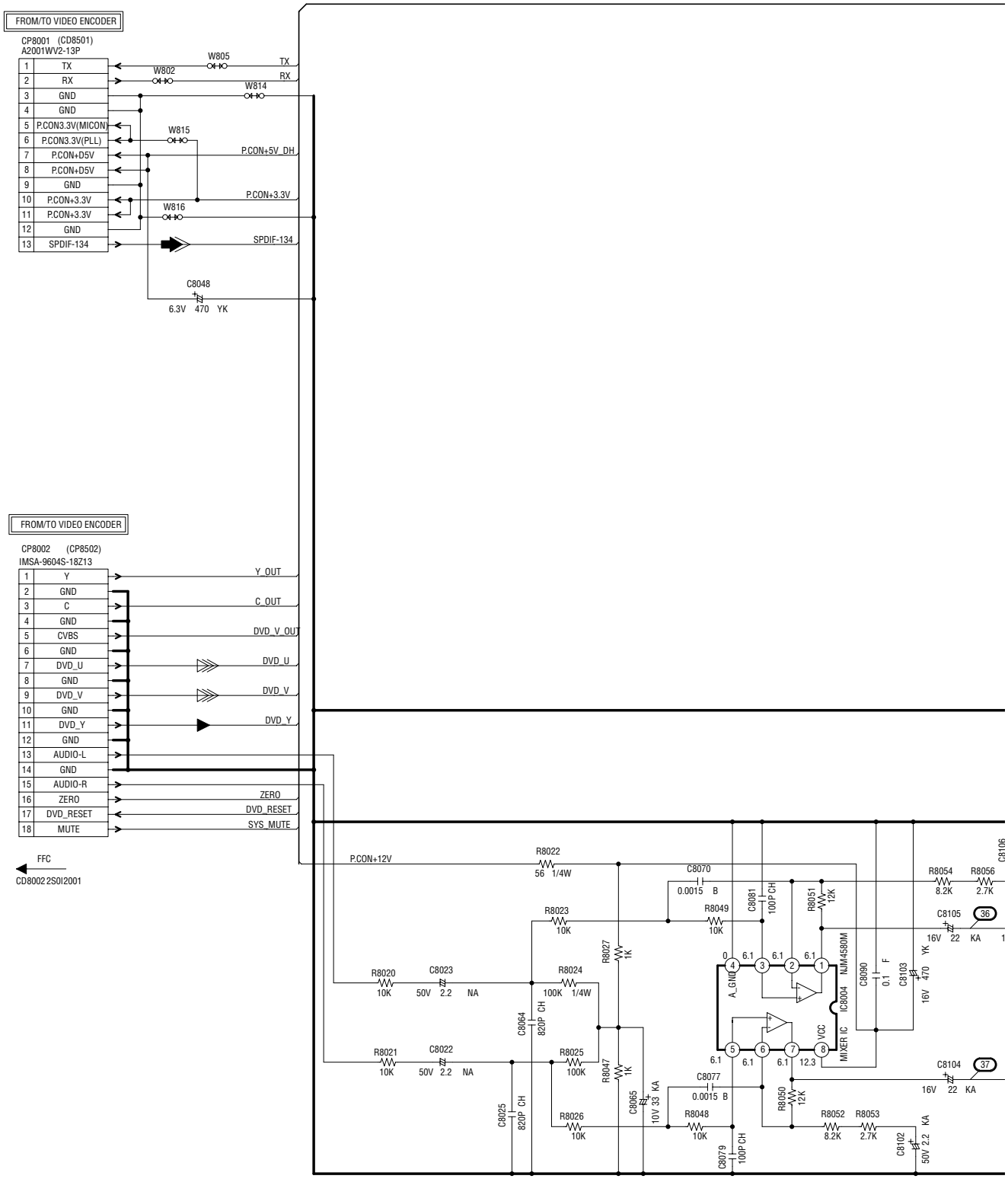
(VCR PCB)



EMATIC DIAGRAM IS THE LATEST AT THE TIME
TING AND SUBJECT TO CHANGE WITHOUT NOTICE。

⇦ AUDIO SIGNAL(REC)
⬅ AUDIO SIGNAL(PB)

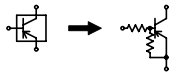
DVD IN/OUT SCHEMATIC D
(VCR PCB)



NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE。

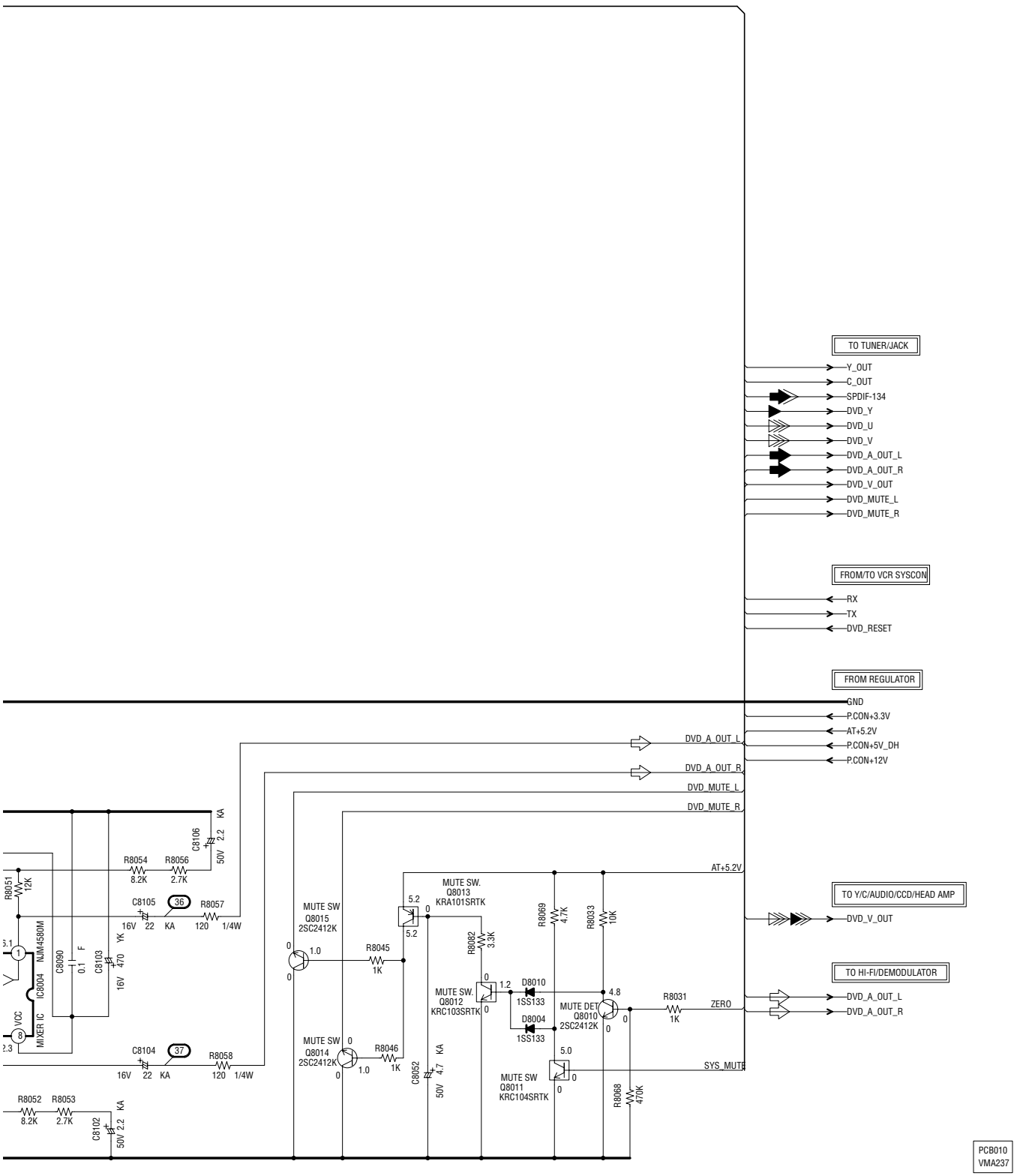
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK。

CAUTION: DIGITAL TRANSISTOR

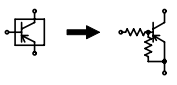


JT SCHEMATIC DIAGRAM

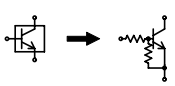
(VCR PCB)



CAUTION: DIGITAL TRANSISTOR



CAUTION: DIGITAL TRANSISTOR



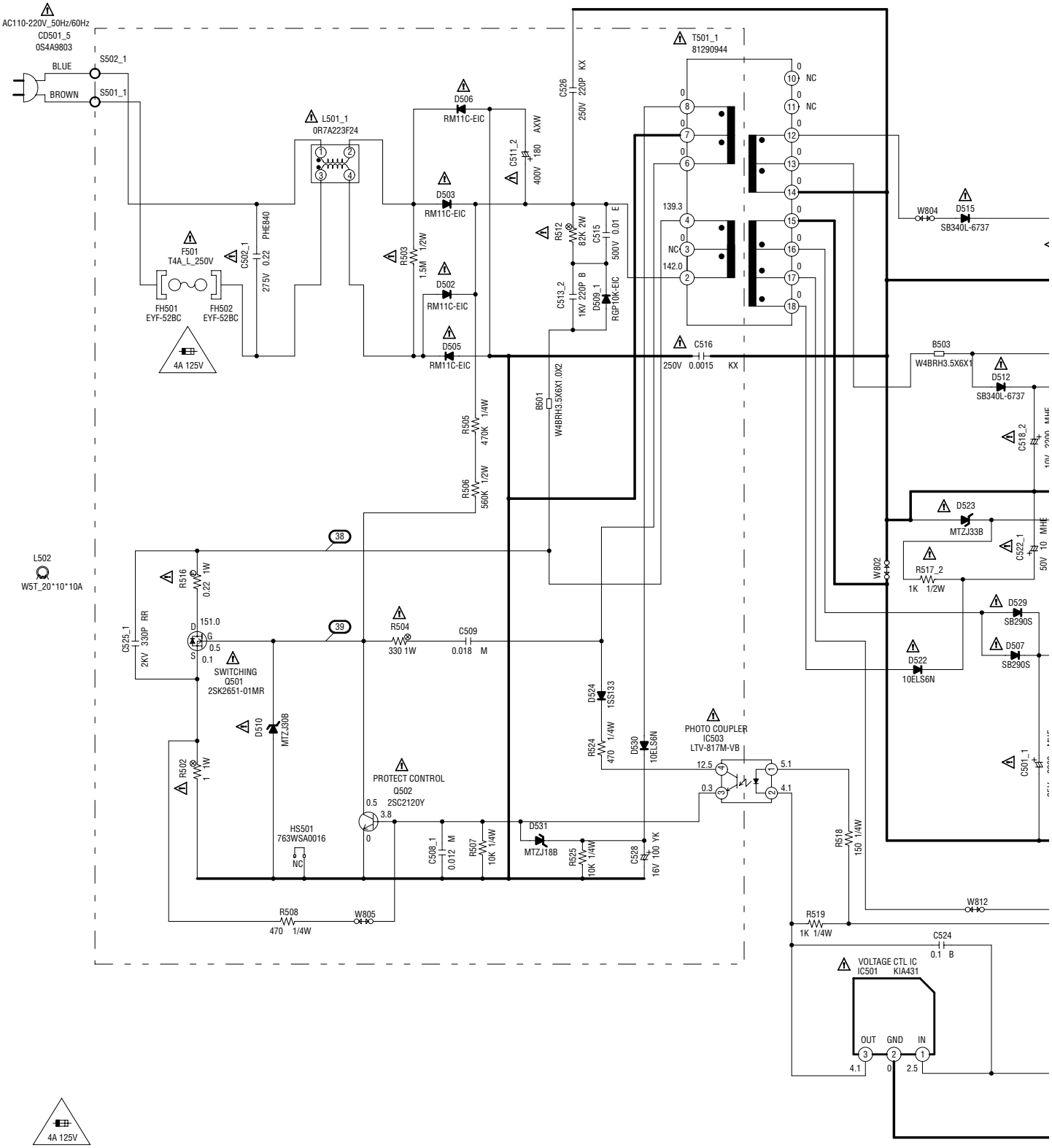
AUDIO SIGNAL(PB)

DIGITAL AUDIO SIGNAL(PB)

RECORD COLOR SIGNAL

RECORD LUMINANCE SIGNAL

POWER SCHEMATIC
(POWER PCB)



CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE
4A 125V(F501).

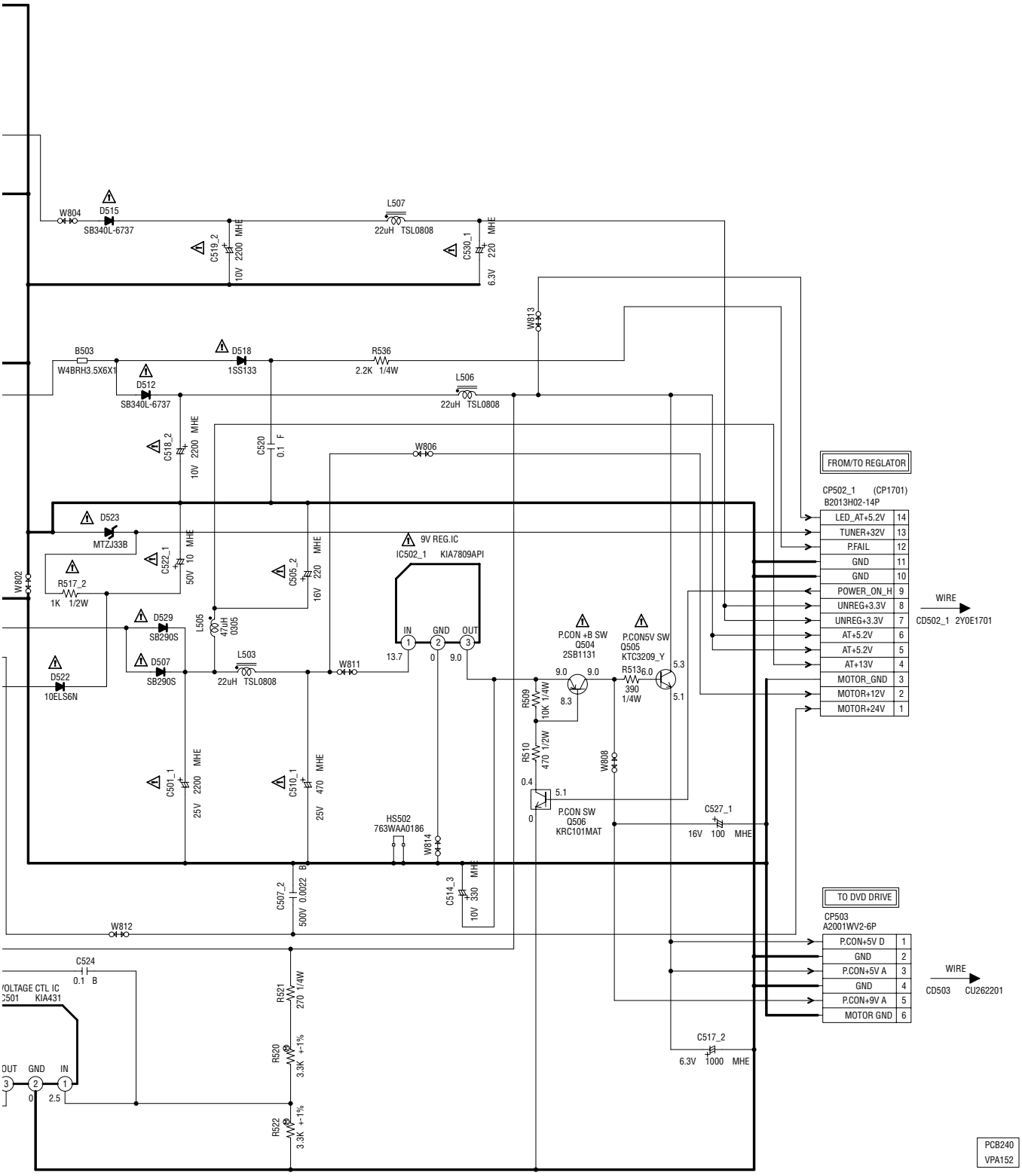
ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES D'INCEIE N'UTILISER QUE DES FUSIBLE DE MEME TYPE
4A 125V(F501).

CAUTION: SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY,USE ONES DESCRIBED IN PARTS LIST ONLY 。

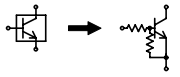
ATTENTION: LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES。

ER SCHEMATIC DIAGRAM

(POWER PCB)



CAUTION: DIGITAL TRANSISTOR

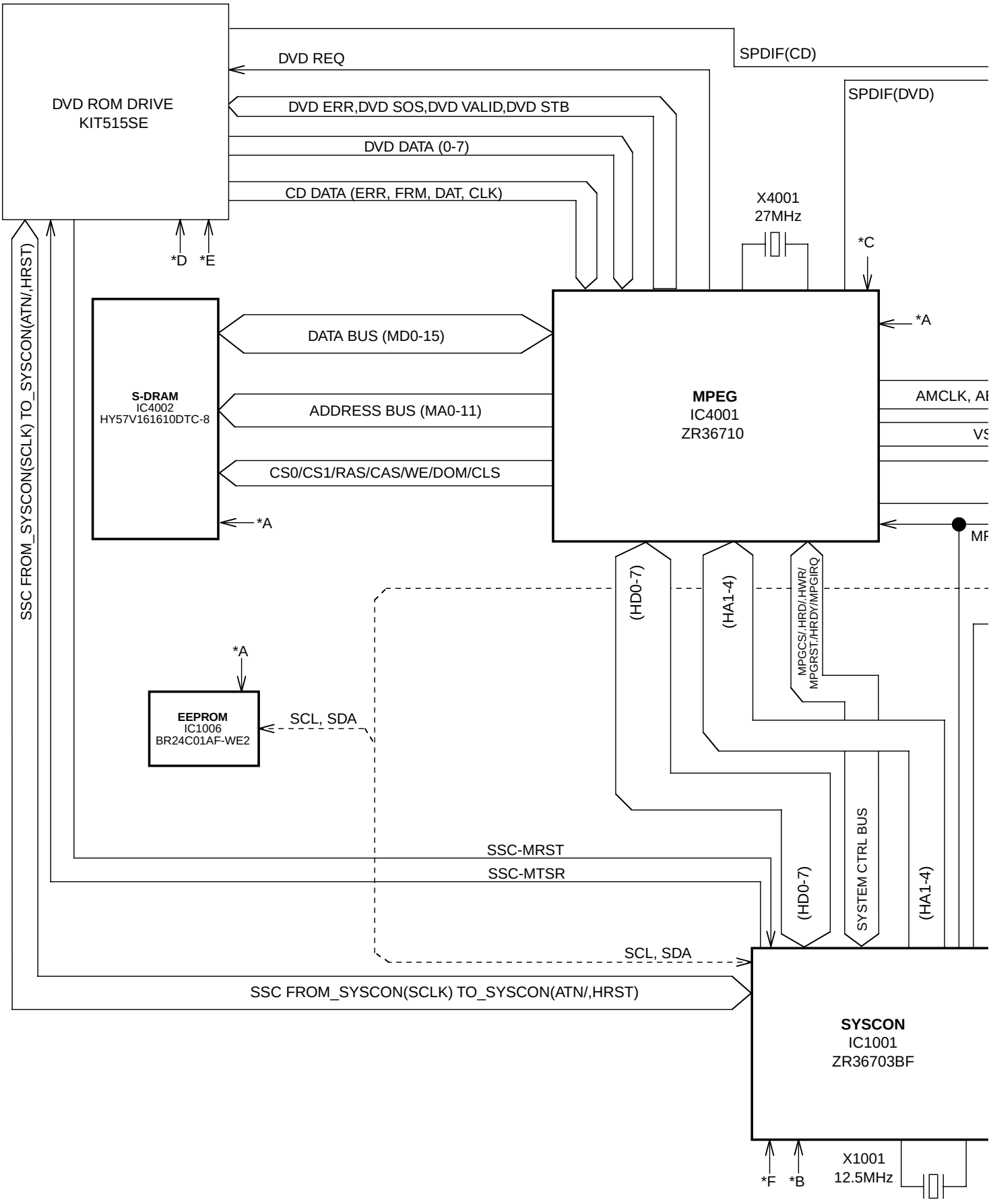


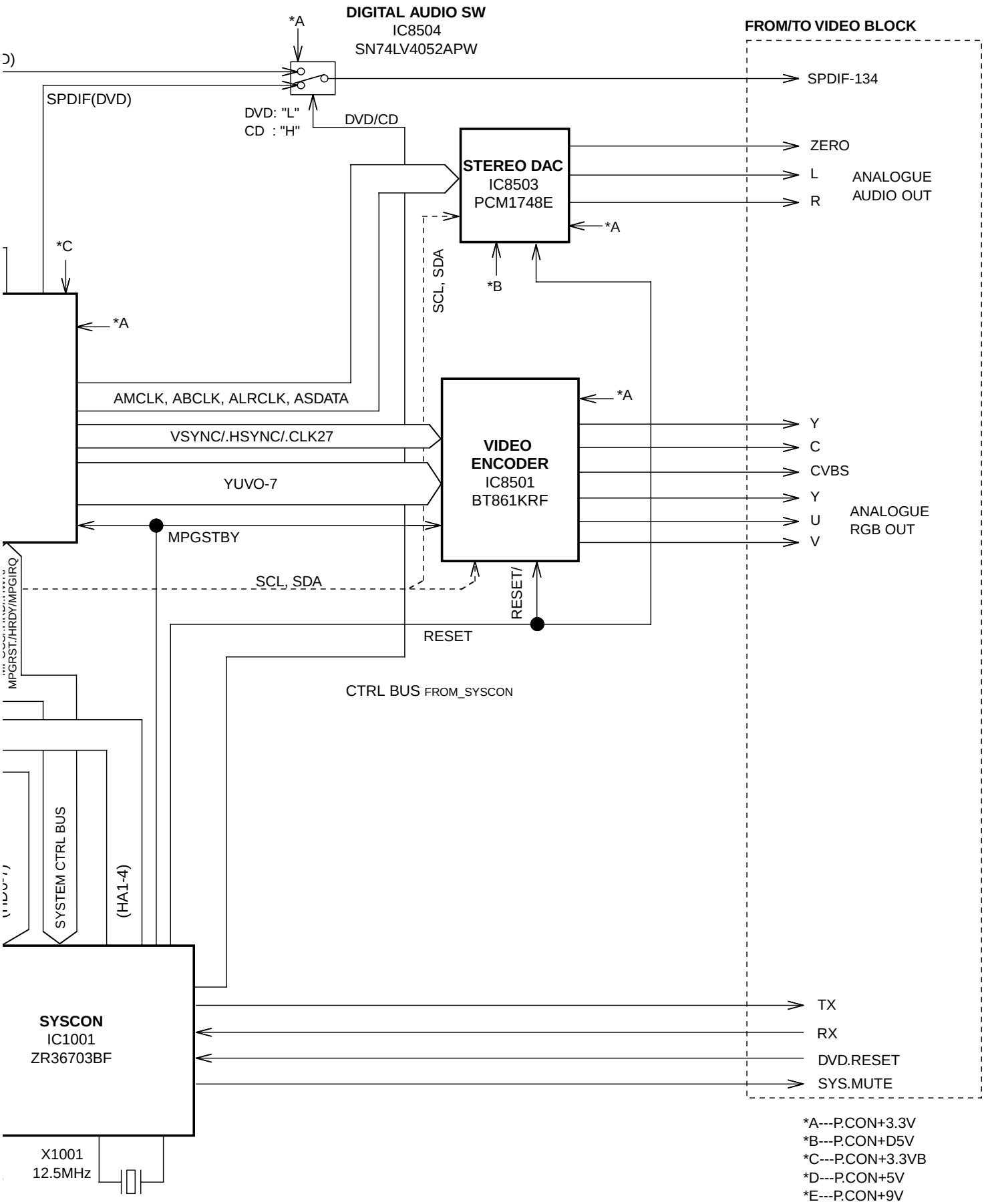
S PAR UN ⚠ ETANT
INT DE VUE SECURITE
S DECRITES
URE DES PIECES。

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE 。

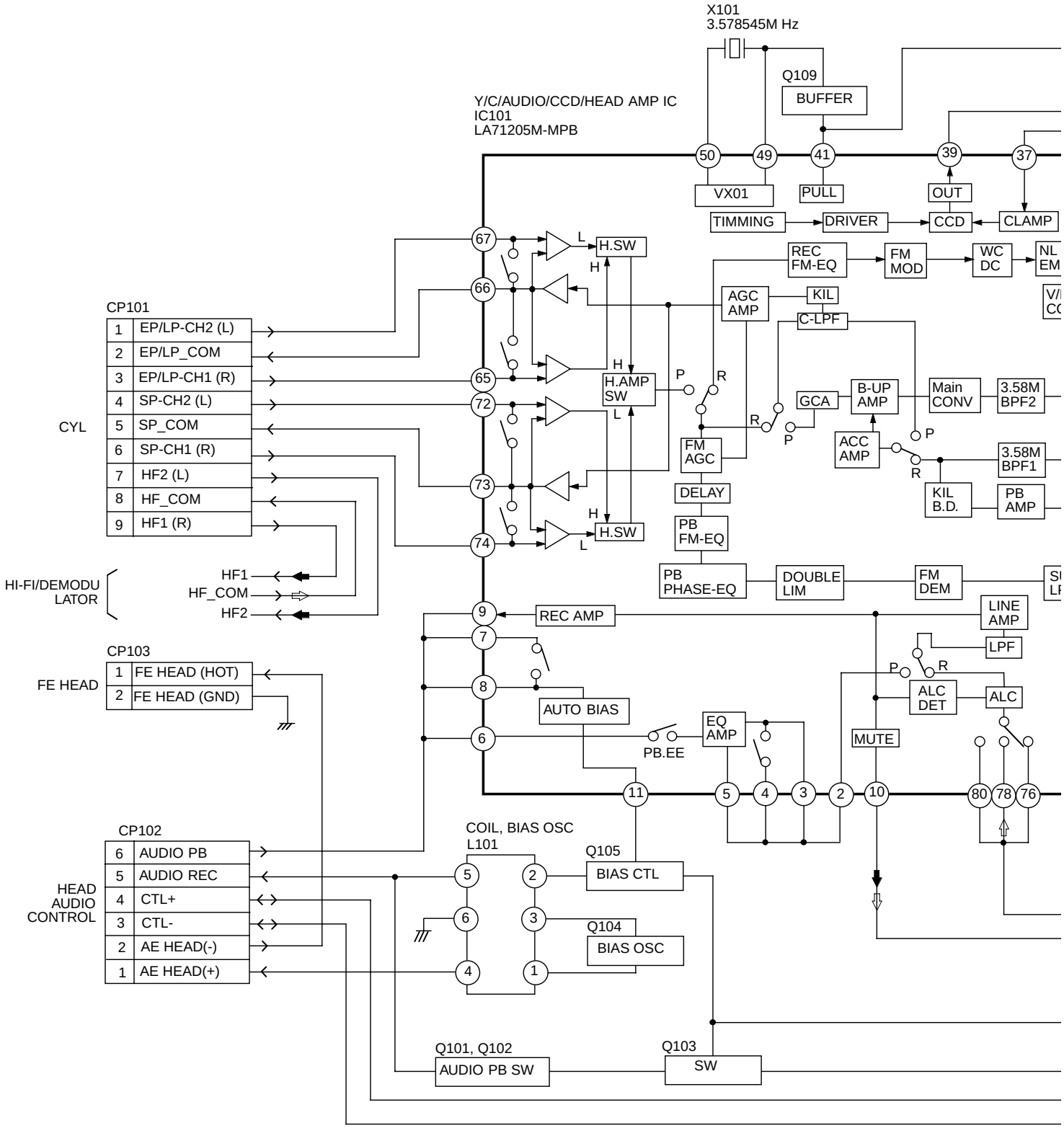
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK。

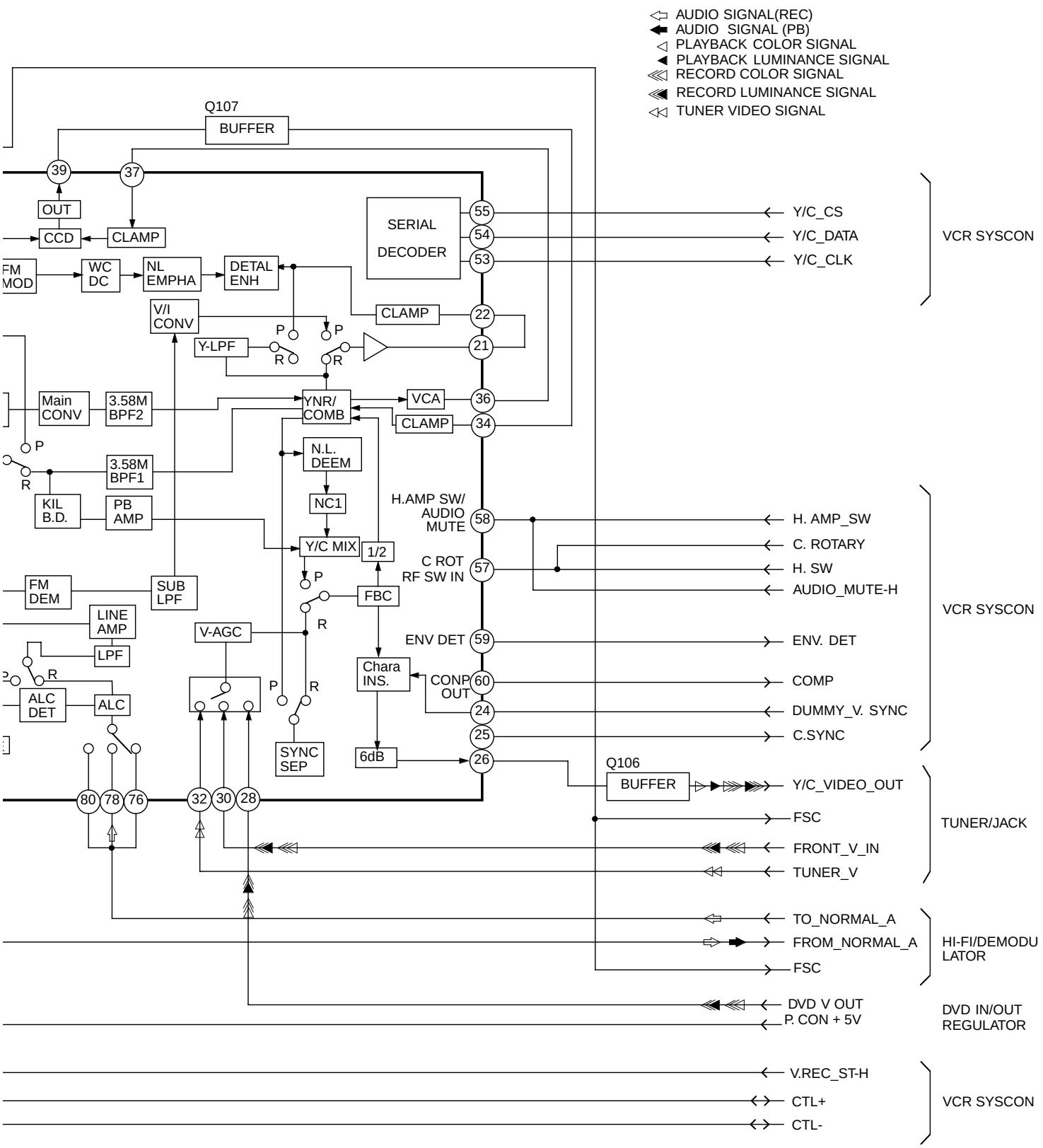
DVD BLOCK DIAGRAM



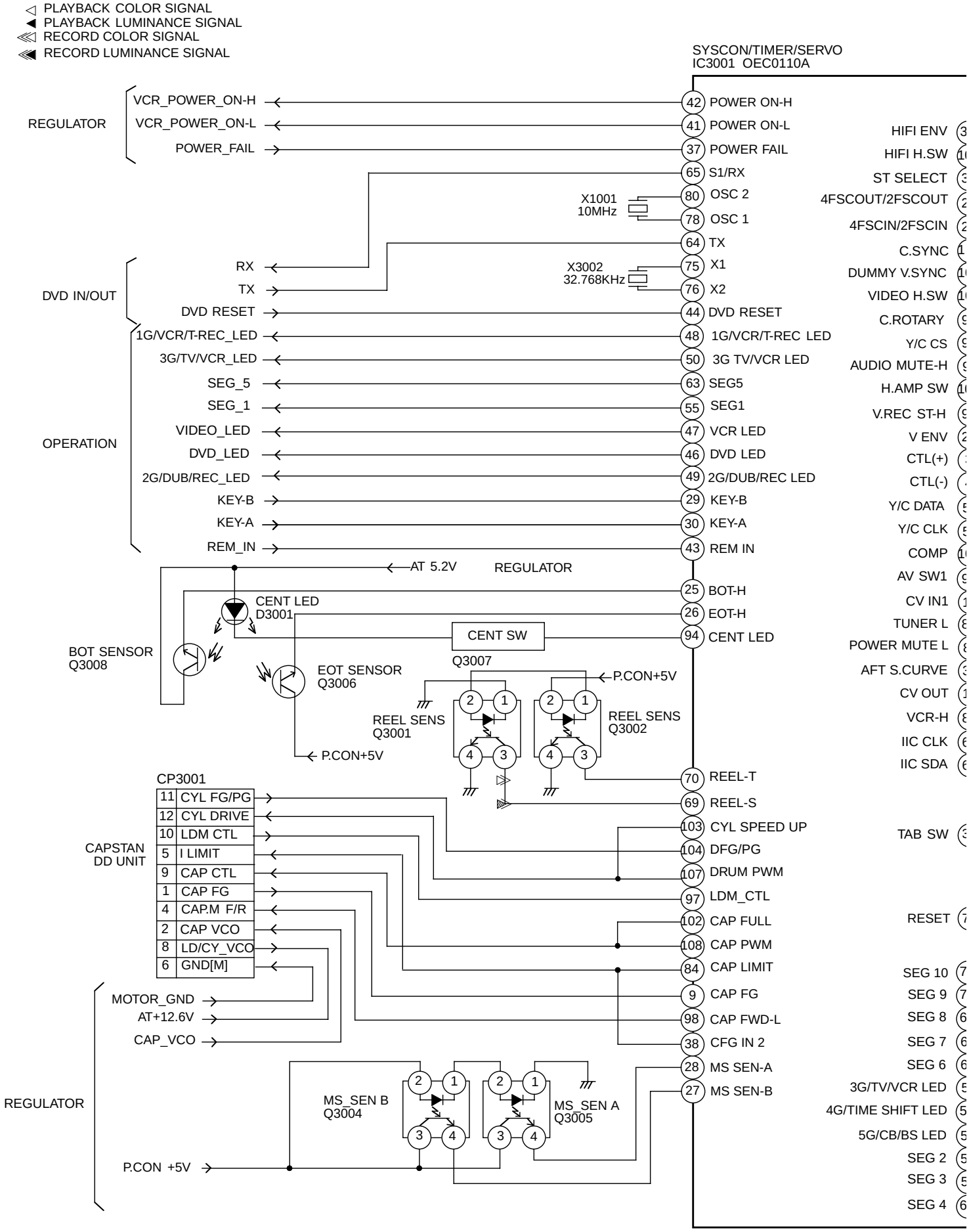

DIGITAL AUDIO SW
IC8504
SN74LV4052APW
FROM/TO VIDEO BLOCK
*A
SPDIF(DVD)
DVD: "L"
CD : "H"
DVD/CD
SPDIF-134
STEREO DAC
IC8503
PCM1748E
ZERO
L
R
ANALOGUE
AUDIO OUT
*C
*A
*B
SCL, SDA
AMCLK, ABCLK, ALRCLK, ASDATA
VSYNC/.HSYNC/.CLK27
YUVO-7
MPGSTBY
VIDEO
ENCODER
IC8501
BT861KRF
Y
C
CVBS
Y
U
V
ANALOGUE
RGB OUT
SCL, SDA
RESET/
RESET
MPGRST./HRDY/MPGIRQ
CTRL BUS FROM_SYSCON
SYSTEM CTRL BUS
(HA1-4)
SYSCON
IC1001
ZR36703BF
TX
RX
DVD.RESET
SYS.MUTE
X1001
12.5MHz
*A---P.CON+3.3V
*B---P.CON+D5V
*C---P.CON+3.3VB
*D---P.CON+5V
*E---P.CON+9V
*F---MICON+3.3V

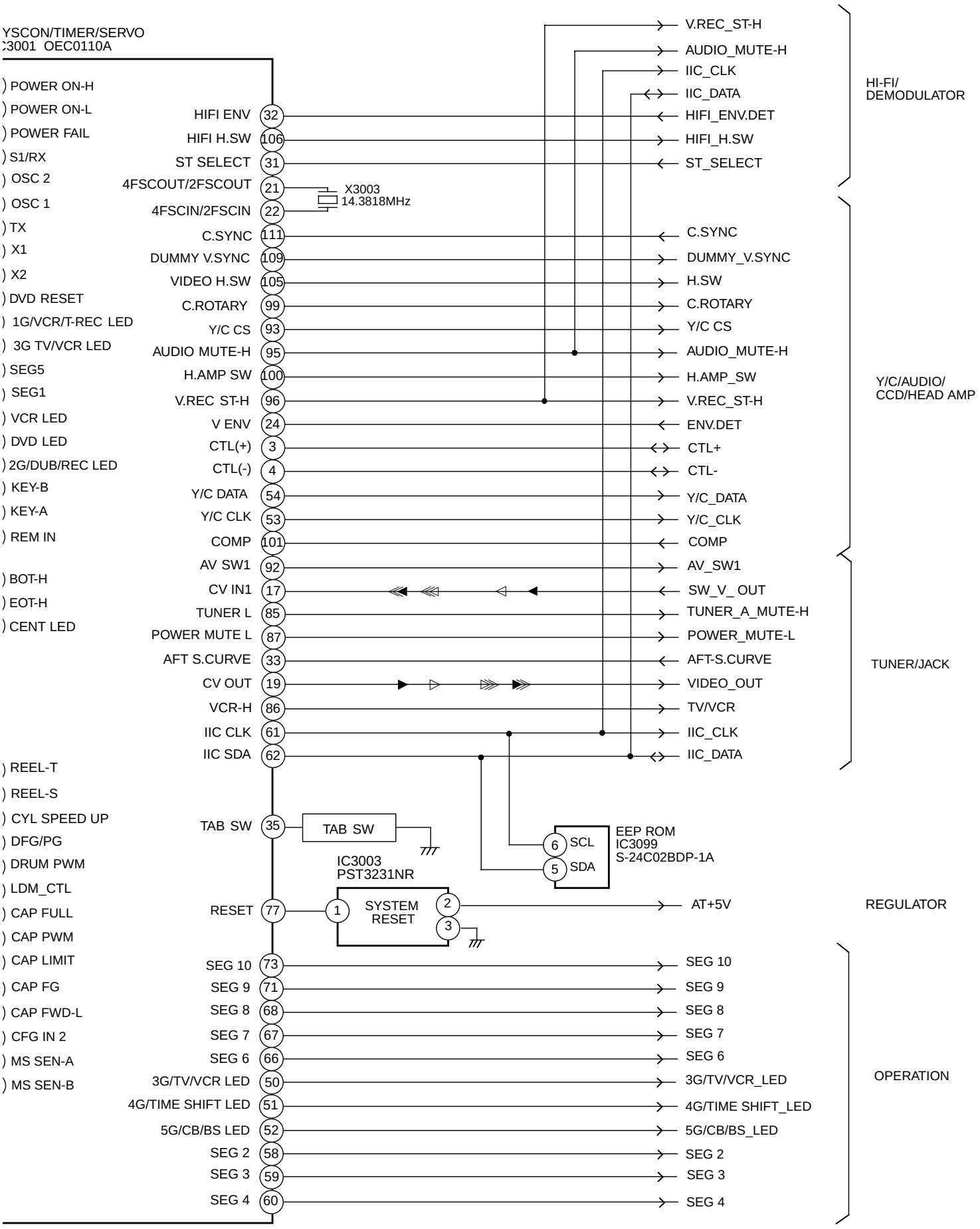
Y/C/AUDIO/CCD/HEAD AMP BLOCK DIAGRAM



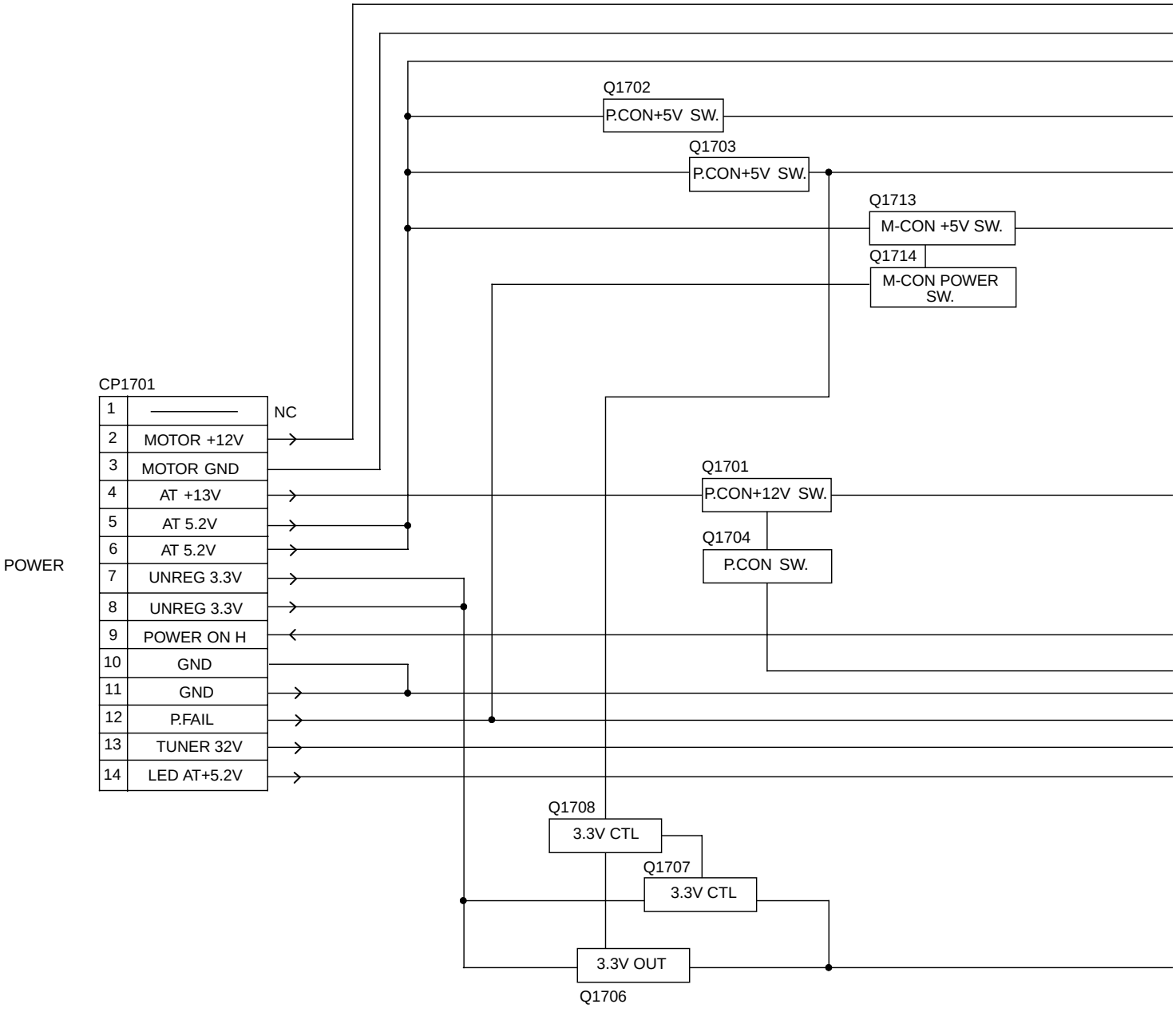

AUDIO SIGNAL(REC)
AUDIO SIGNAL (PB)
PLAYBACK COLOR SIGNAL
PLAYBACK LUMINANCE SIGNAL
RECORD COLOR SIGNAL
RECORD LUMINANCE SIGNAL
TUNER VIDEO SIGNAL
Q107
BUFFER
39
37
OUT
CCD
CLAMP
SERIAL
DECODER
55
54
53
Y/C_CS
Y/C_DATA
Y/C_CLK
VCR SYSCON
FM MOD
WC DC
NL EMPHA
DETAL ENH
V/I CONV
CLAMP
22
Y-LPF
21
Main CONV
3.58M BPF2
YNR/ COMB
VCA
36
CLAMP
34
3.58M BPF1
N.L. DEEM
KIL B.D.
PB AMP
NC1
H.AMP SW/ AUDIO MUTE
58
H. AMP_SW
C. ROTARY
Y/C MIX
1/2
C ROT RF SW IN
57
H. SW
AUDIO_MUTE-H
VCR SYSCON
FM DEM
SUB LPF
FBC
LINE AMP
V-AGC
ENV DET
59
ENV. DET
LPF
Chara INS.
CONP OUT
60
COMP
ALC DET
ALC
24
DUMMY_V. SYNC
25
C.SYNC
SYNC SEP
6dB
26
Q106
BUFFER
Y/C_VIDEO_OUT
FSC
TUNER/JACK
80
78
76
32
30
28
FRONT_V_IN
TUNER_V
TO_NORMAL_A
FROM_NORMAL_A
HI-FI/DEMODU LATOR
FSC
DVD V OUT
DVD IN/OUT REGULATOR
P. CON + 5V
V.REC_ST-H
CTL+
CTL-
VCR SYSCON

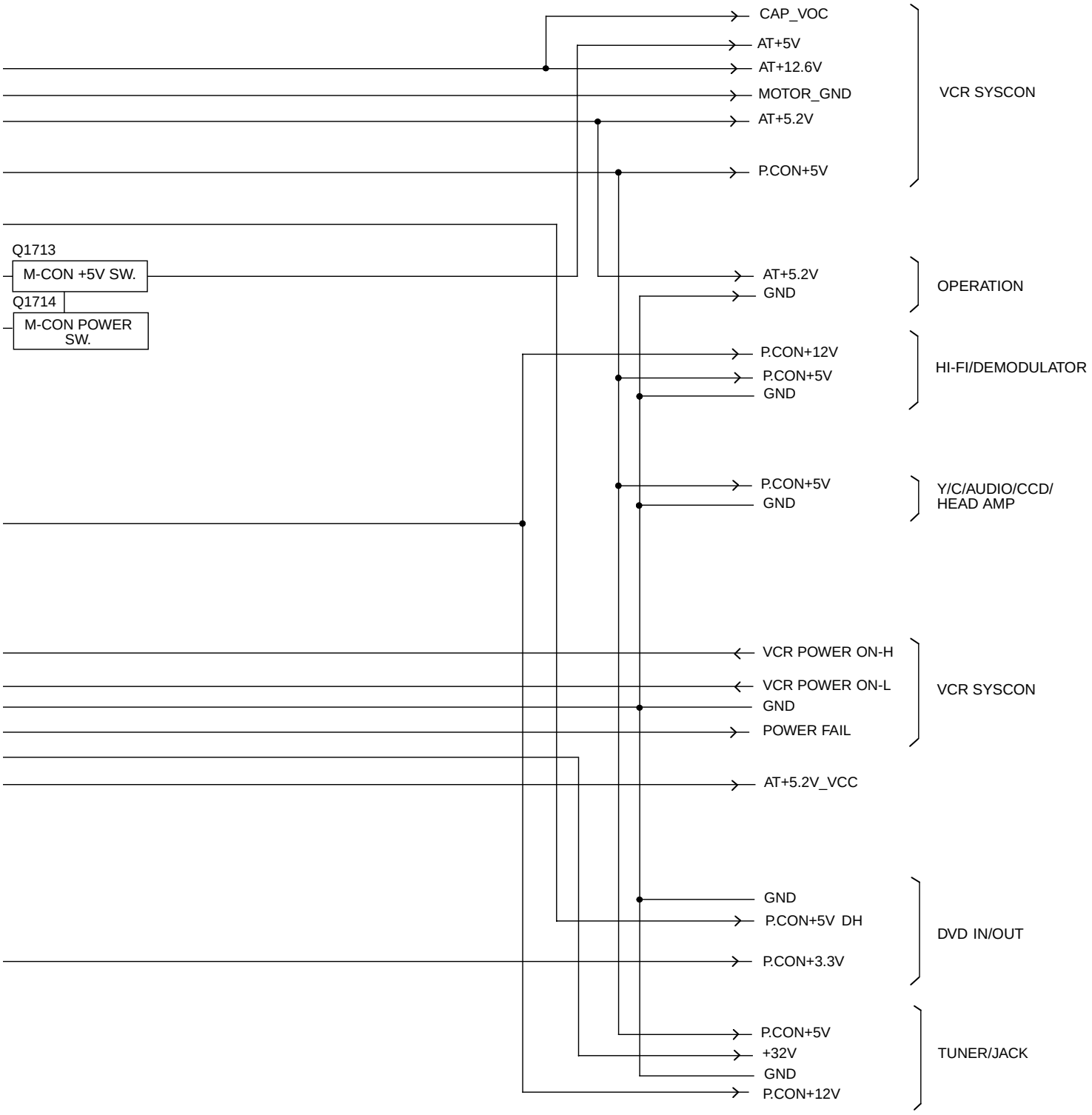
VCR SYSCON BLOCK DIAGRAM



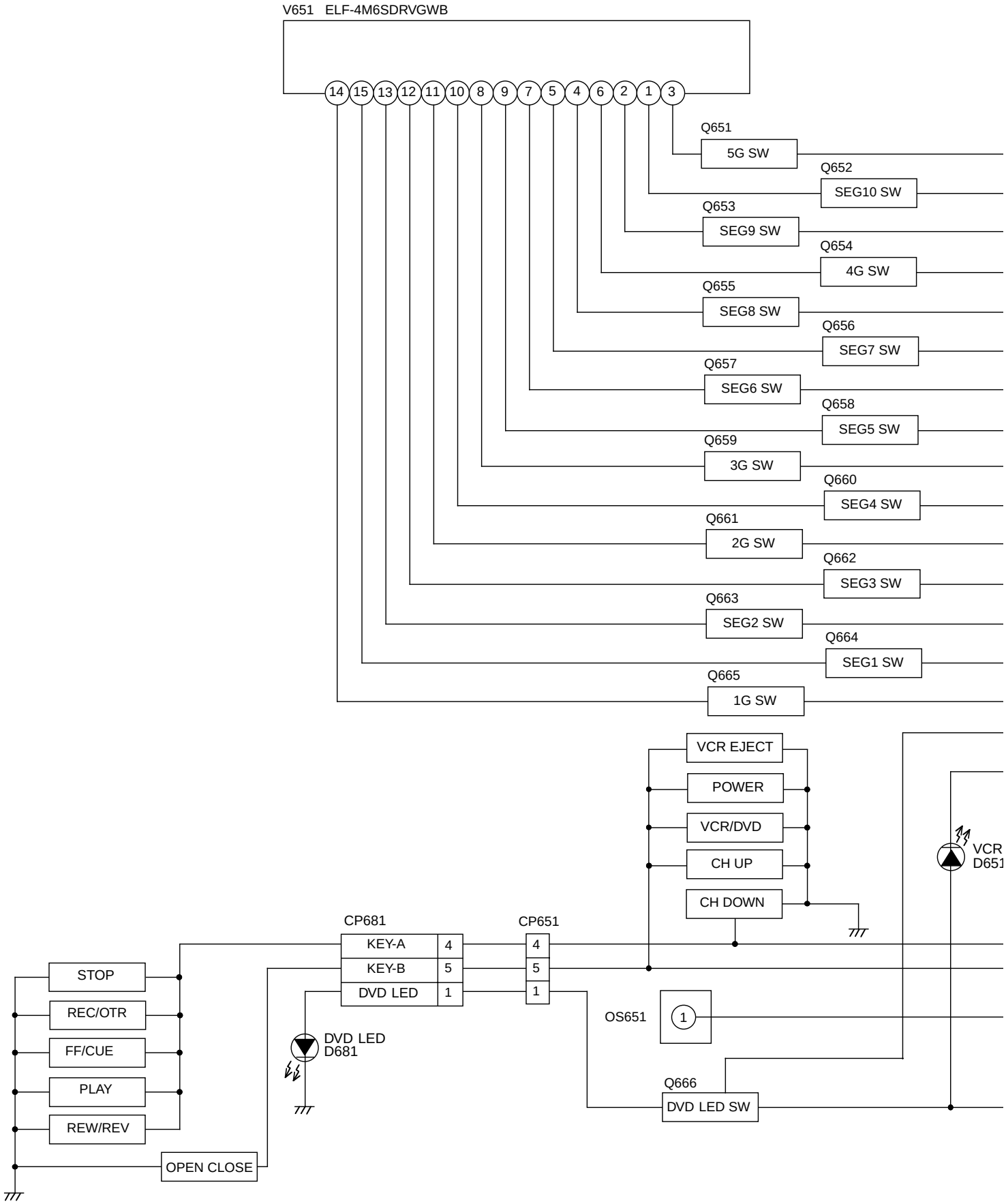

YSCON/TIMER/SERVO
:3001 OEC0110A
) POWER ON-H
) POWER ON-L
) POWER FAIL
) S1/RX
) OSC 2
) OSC 1
) TX
) X1
) X2
) DVD RESET
) 1G/VCR/T-REC LED
) 3G TV/VCR LED
) SEG5
) SEG1
) VCR LED
) DVD LED
) 2G/DUB/REC LED
) KEY-B
) KEY-A
) REM IN
) BOT-H
) EOT-H
) CENT LED
) REEL-T
) REEL-S
) CYL SPEED UP
) DFG/PG
) DRUM PWM
) LDM_CTL
) CAP FULL
) CAP PWM
) CAP LIMIT
) CAP FG
) CAP FWD-L
) CFG IN 2
) MS SEN-A
) MS SEN-B
HIFI ENV 32
HIFI H.SW 106
ST SELECT 31
4FSCOUT/2FSCOUT 21
4FSCIN/2FSCIN 22
X3003
14.3818MHz
C.SYNC 111
DUMMY V.SYNC 109
VIDEO H.SW 105
C.ROTARY 99
Y/C CS 93
AUDIO MUTE-H 95
H.AMP SW 100
V.REC ST-H 96
V ENV 24
CTL(+) 3
CTL(-) 4
Y/C DATA 54
Y/C CLK 53
COMP 101
AV SW1 92
CV IN1 17
TUNER L 85
POWER MUTE L 87
AFT S.CURVE 33
CV OUT 19
VCR-H 86
IIC CLK 61
IIC SDA 62
TAB SW 35
TAB SW
IC3003
PST3231NR
RESET 77
1
SYSTEM
RESET
2
3
6
SCL
5
SDA
EEP ROM
IC3099
S-24C02BDP-1A
SEG 10 73
SEG 9 71
SEG 8 68
SEG 7 67
SEG 6 66
3G/TV/VCR LED 50
4G/TIME SHIFT LED 51
5G/CB/BS LED 52
SEG 2 58
SEG 3 59
SEG 4 60
V.REC_ST-H
AUDIO_MUTE-H
IIC_CLK
IIC_DATA
HIFI_ENV.DET
HIFI_H.SW
ST_SELECT
HI-FI/
DEMODULATOR
C.SYNC
DUMMY_V.SYNC
H.SW
C.ROTARY
Y/C CS
AUDIO_MUTE-H
H.AMP_SW
V.REC_ST-H
ENV.DET
CTL+
CTL-
Y/C_DATA
Y/C_CLK
COMP
Y/C/AUDIO/
CCD/HEAD AMP
AV_SW1
SW_V_ OUT
TUNER_A_MUTE-H
POWER_MUTE-L
AFT-S.CURVE
VIDEO_OUT
TV/VCR
IIC_CLK
IIC_DATA
TUNER/JACK
AT+5V
REGULATOR
SEG 10
SEG 9
SEG 8
SEG 7
SEG 6
3G/TV/VCR_LED
4G/TIME SHIFT_LED
5G/CB/BS_LED
SEG 2
SEG 3
SEG 4
OPERATION

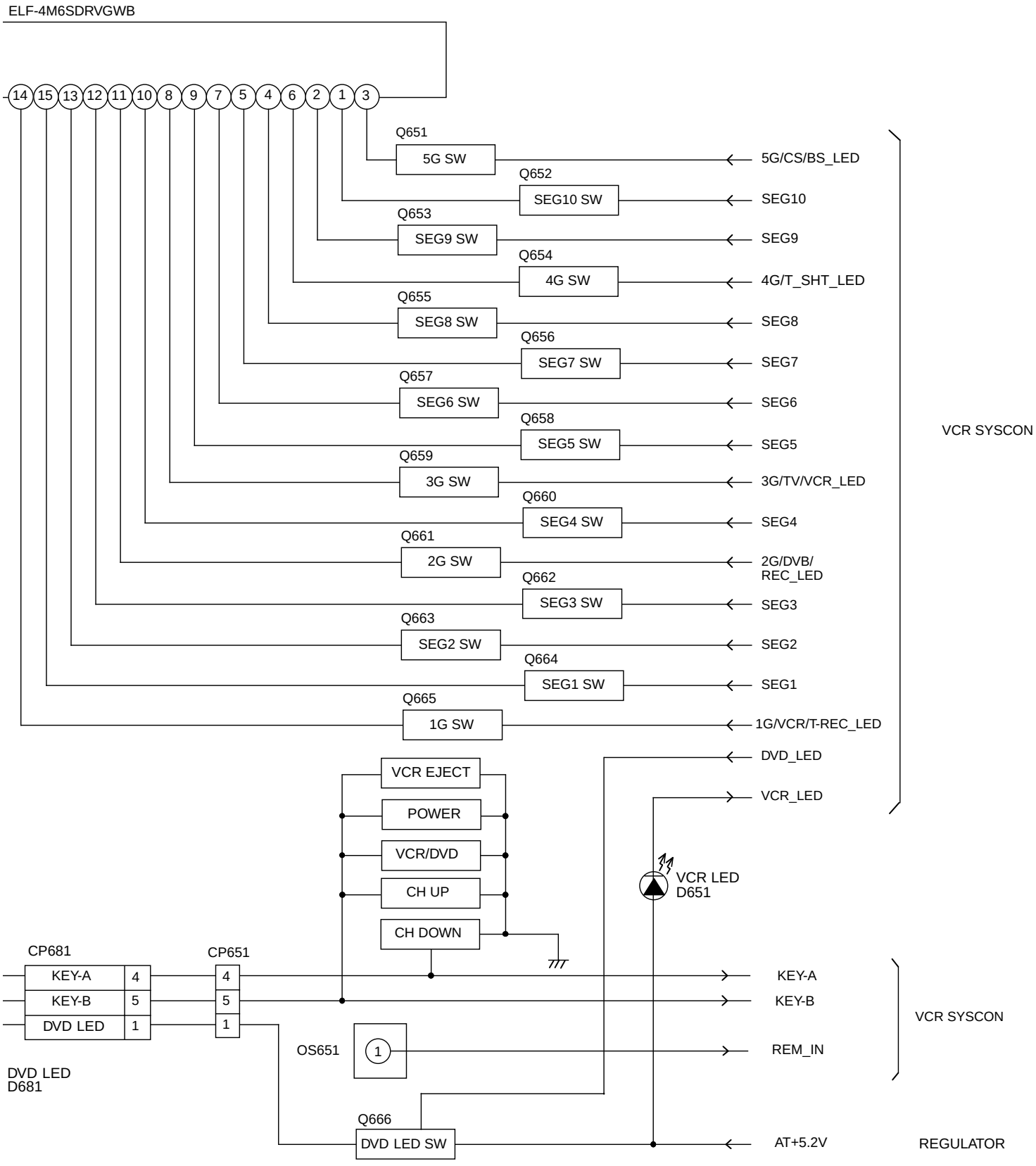
REGULATOR BLOCK DIAGRAM



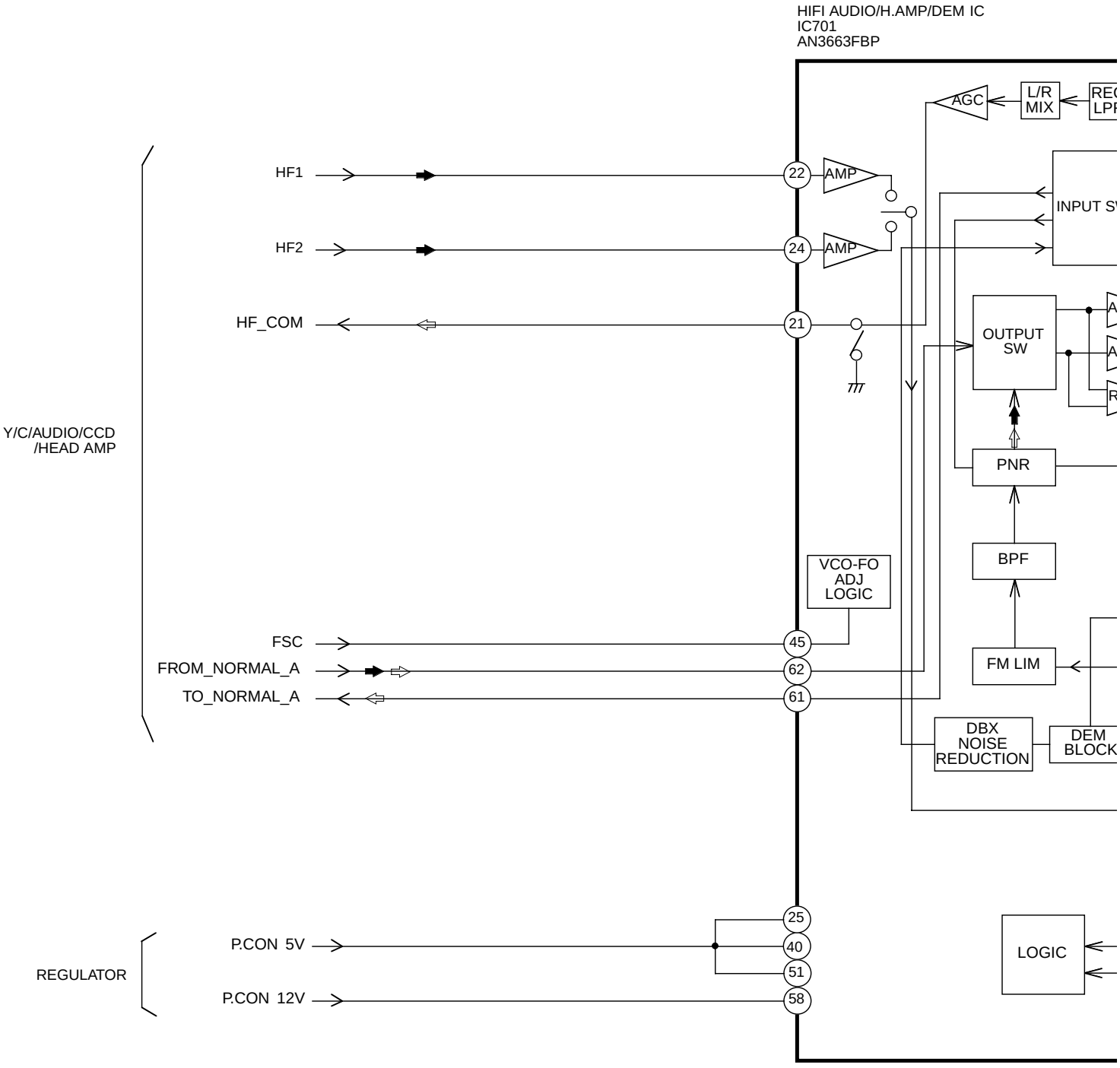

CAP_VOC
AT+5V
AT+12.6V
MOTOR_GND
AT+5.2V
P.CON+5V
VCR SYSCON
Q1713
M-CON +5V SW.
Q1714
M-CON POWER SW.
AT+5.2V
GND
OPERATION
P.CON+12V
P.CON+5V
GND
HI-FI/DEMODULATOR
P.CON+5V
GND
Y/C/AUDIO/CCD/ HEAD AMP
VCR POWER ON-H
VCR POWER ON-L
GND
POWER FAIL
VCR SYSCON
AT+5.2V_VCC
GND
P.CON+5V DH
P.CON+3.3V
DVD IN/OUT
P.CON+5V
+32V
GND
P.CON+12V
TUNER/JACK

OPERATION BLOCK DIAGRAM

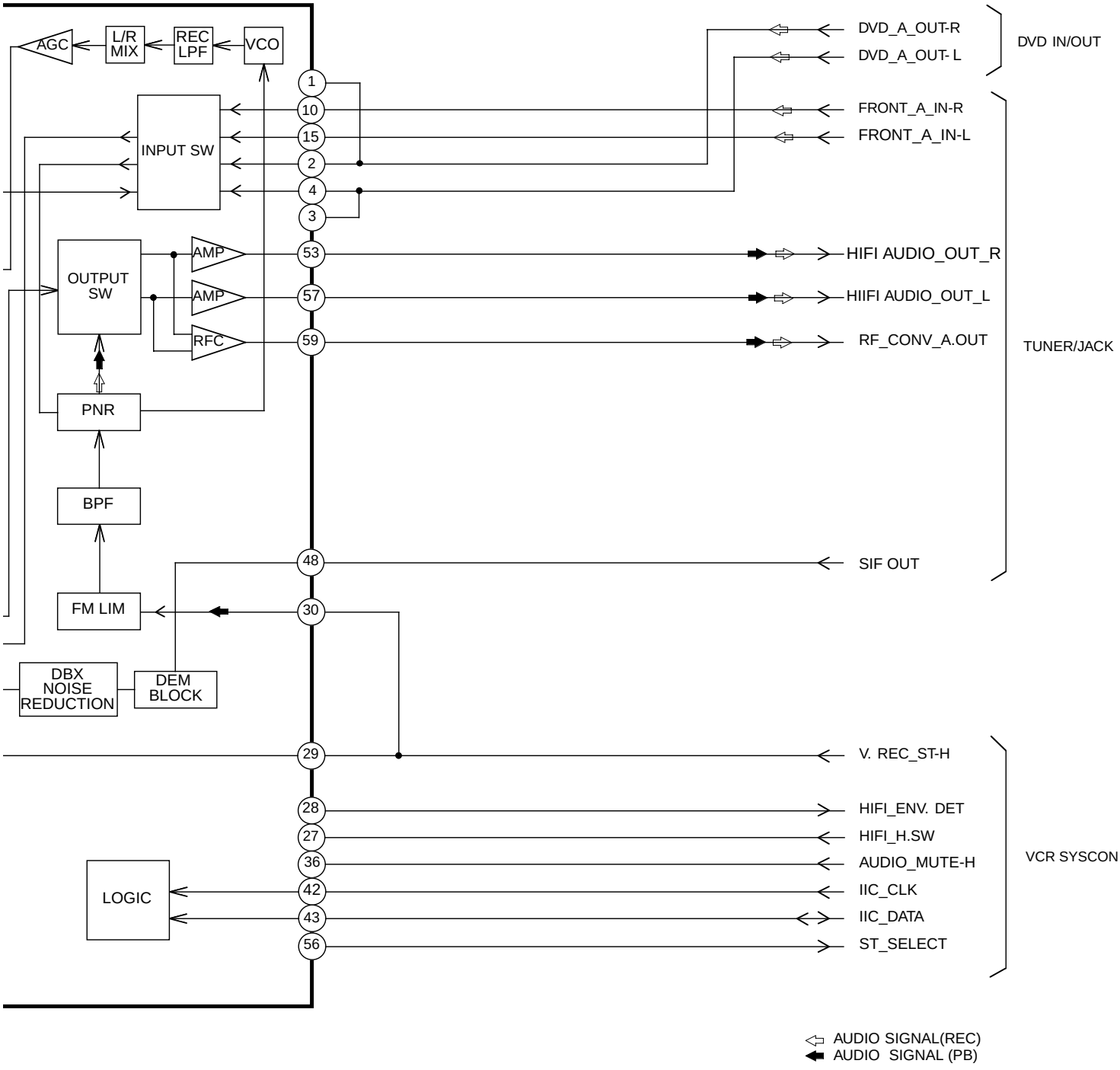



ELF-4M6SDRVGWB
14
15
13
12
11
10
8
9
7
5
4
6
2
1
3
Q651
5G SW
5G/CS/BS_LED
Q652
SEG10 SW
SEG10
Q653
SEG9 SW
SEG9
Q654
4G SW
4G/T_SHT_LED
Q655
SEG8 SW
SEG8
Q656
SEG7 SW
SEG7
Q657
SEG6 SW
SEG6
Q658
SEG5 SW
SEG5
Q659
3G SW
3G/TV/VCR_LED
Q660
SEG4 SW
SEG4
Q661
2G SW
2G/DVB/
REC_LED
Q662
SEG3 SW
SEG3
Q663
SEG2 SW
SEG2
Q664
SEG1 SW
SEG1
Q665
1G SW
1G/VCR/T-REC_LED
VCR SYSCON
DVD_LED
VCR_LED
VCR EJECT
POWER
VCR/DVD
CH UP
CH DOWN
VCR LED
D651
CP681
CP651
KEY-A
4
KEY-B
5
DVD LED
1
KEY-A
KEY-B
VCR SYSCON
OS651
1
REM_IN
DVD LED
D681
Q666
DVD LED SW
AT+5.2V
REGULATOR

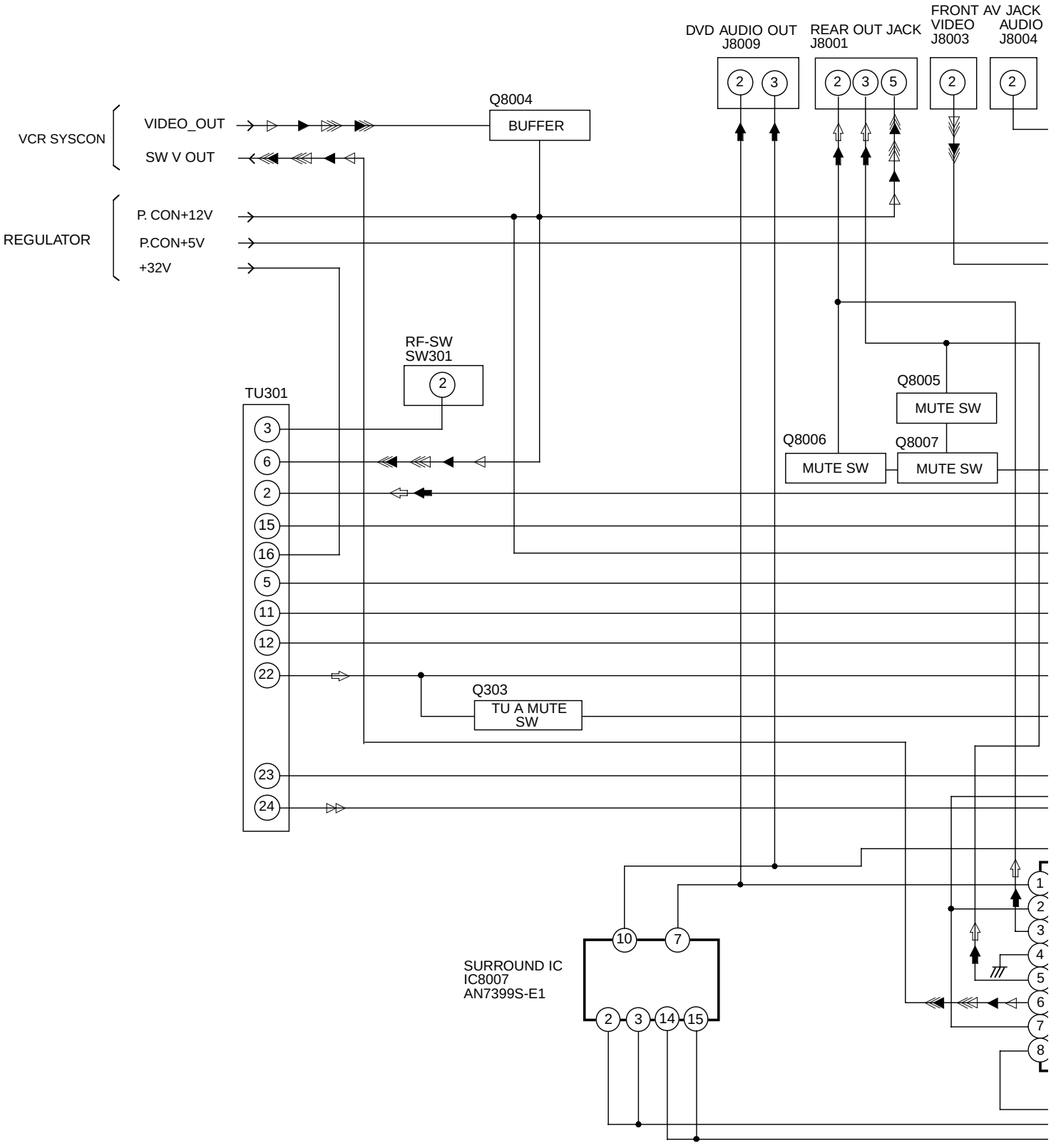
Hi-Fi/DEMODULATOR BLOCK DIAGRAM

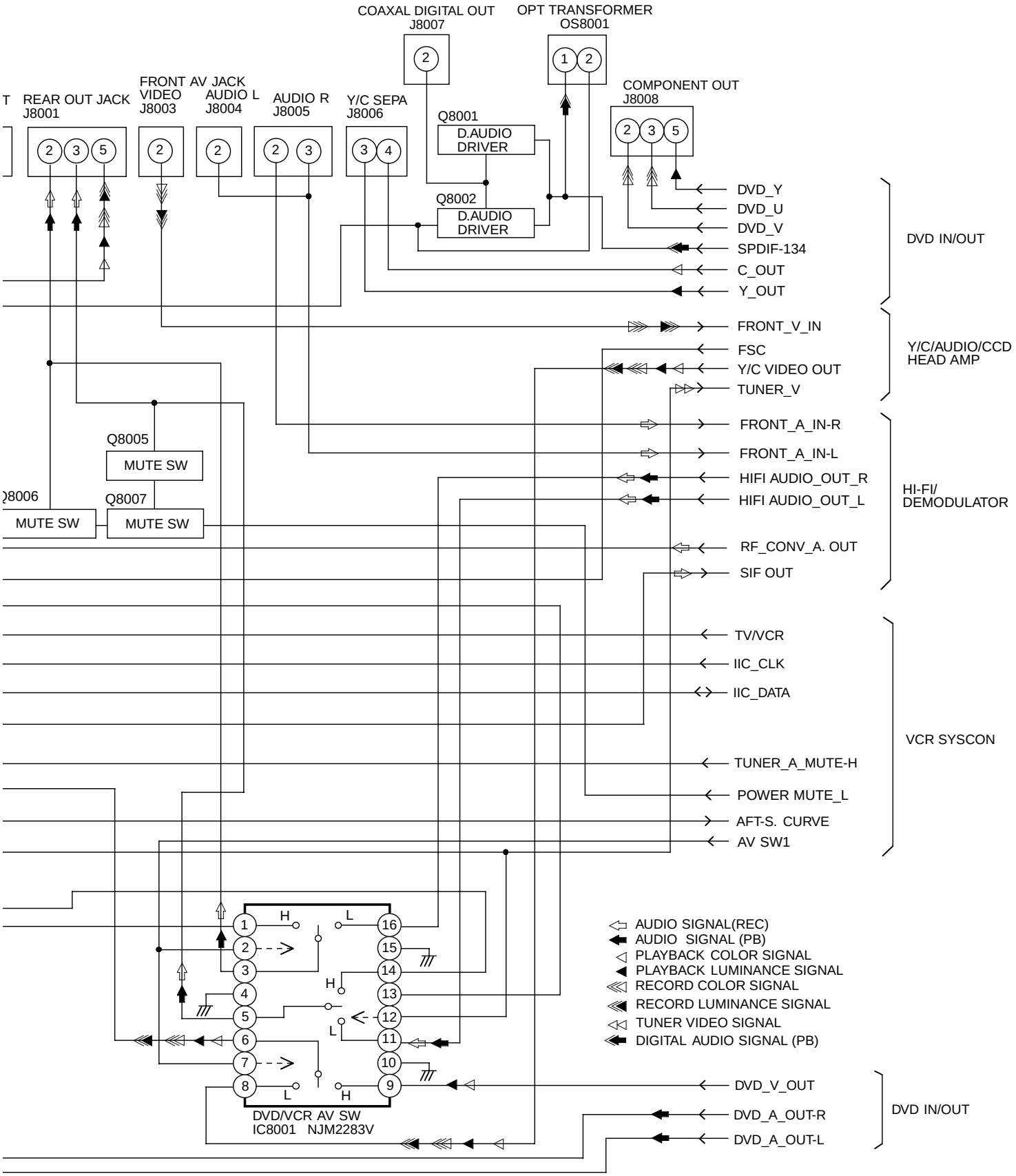


P/DEM IC

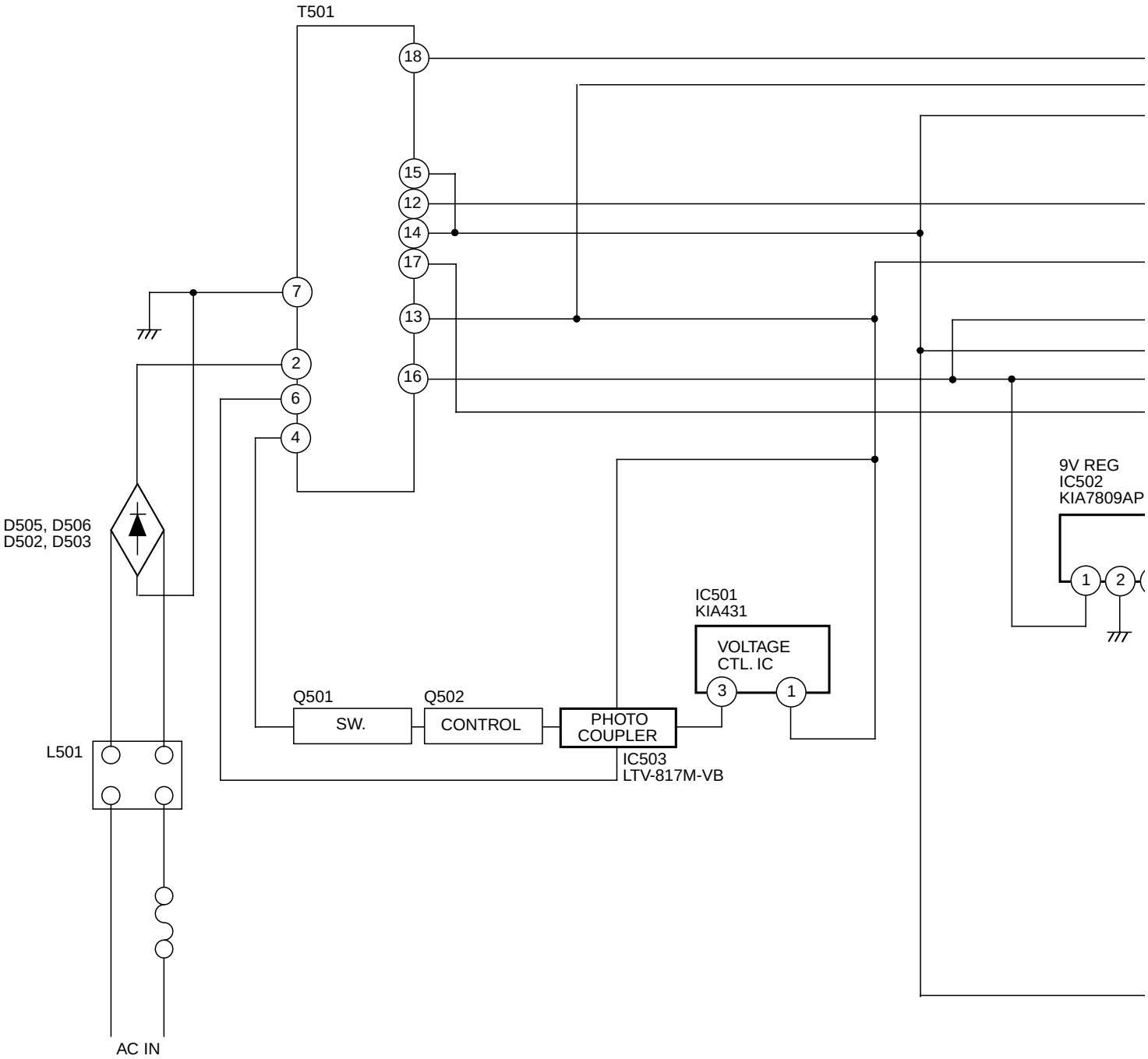

AGC
L/R MIX
REC LPF
VCO
INPUT SW
OUTPUT SW
AMP
AMP
RFC
PNR
BPF
FM LIM
DBX NOISE REDUCTION
DEM BLOCK
LOGIC
1
10
15
2
4
3
53
57
59
48
30
29
28
27
36
42
43
56
DVD_A_OUT-R
DVD_A_OUT- L
DVD IN/OUT
FRONT_A_IN-R
FRONT_A_IN-L
HIFI AUDIO_OUT_R
HIIFI AUDIO_OUT_L
RF_CONV_A.OUT
TUNER/JACK
SIF OUT
V. REC_ST-H
HIFI_ENV. DET
HIFI_H.SW
AUDIO_MUTE-H
IIC_CLK
IIC_DATA
ST_SELECT
VCR SYSCON
AUDIO SIGNAL(REC)
AUDIO SIGNAL (PB)

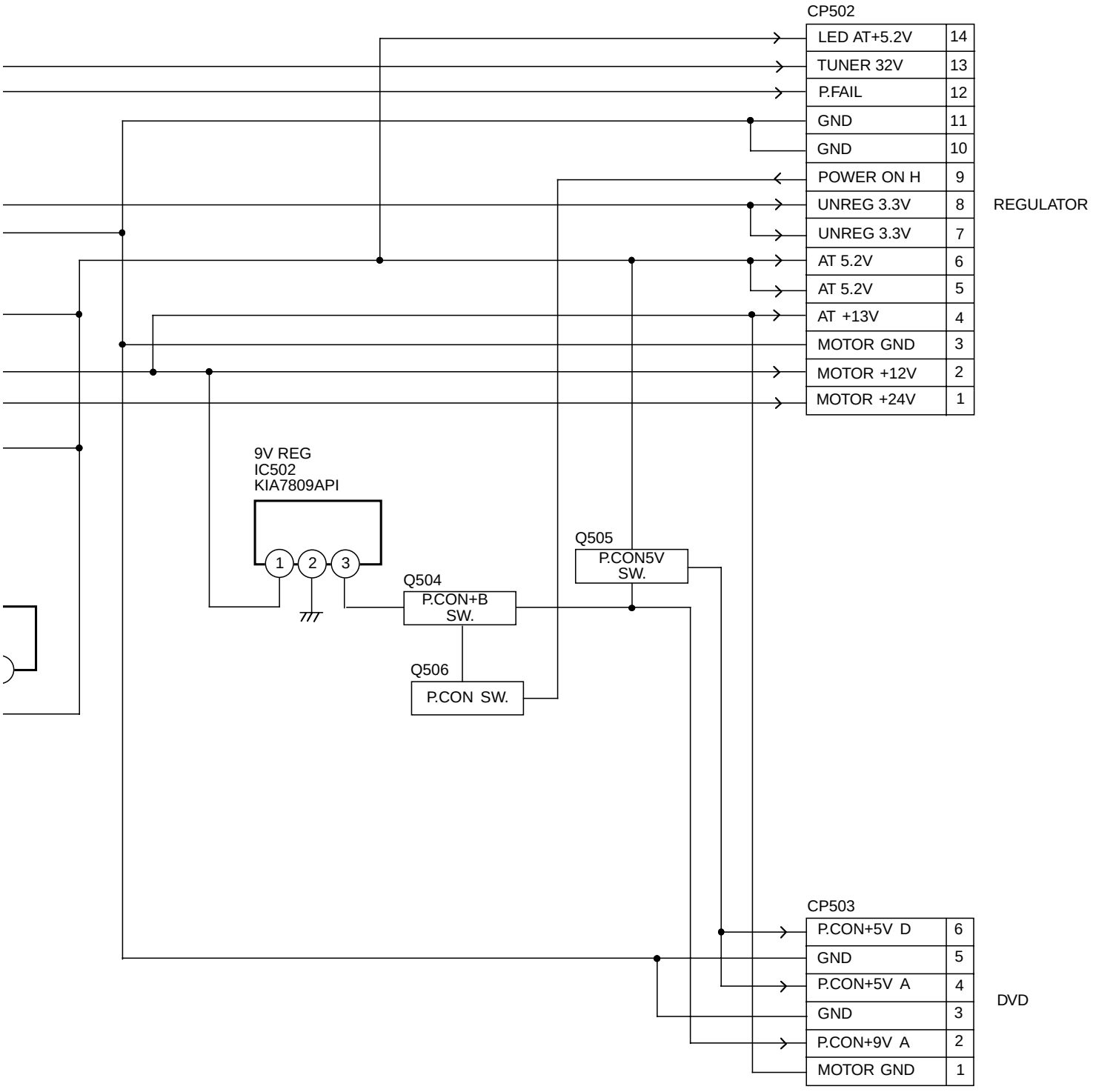
TUNER/JACK BLOCK DIAGRAM




COAXAL DIGITAL OUT
J8007
OPT TRANSFORMER
OS8001
REAR OUT JACK
J8001
FRONT AV JACK
VIDEO
J8003
AUDIO L
J8004
AUDIO R
J8005
Y/C SEPA
J8006
Q8001
D.AUDIO
DRIVER
Q8002
D.AUDIO
DRIVER
COMPONENT OUT
J8008
DVD_Y
DVD_U
DVD_V
SPDIF-134
C_OUT
Y_OUT
DVD IN/OUT
FRONT_V_IN
FSC
Y/C VIDEO OUT
TUNER_V
Y/C/AUDIO/CCD
HEAD AMP
Q8005
MUTE SW
Q8006
MUTE SW
Q8007
MUTE SW
FRONT_A_IN-R
FRONT_A_IN-L
HIFI AUDIO_OUT_R
HIFI AUDIO_OUT_L
RF_CONV_A. OUT
SIF OUT
HI-FI/
DEMODULATOR
TV/VCR
IIC_CLK
IIC_DATA
TUNER_A_MUTE-H
POWER MUTE_L
AFT-S. CURVE
AV SW1
VCR SYSCON
DVD/VCR AV SW
IC8001 NJM2283V
AUDIO SIGNAL(REC)
AUDIO SIGNAL (PB)
PLAYBACK COLOR SIGNAL
PLAYBACK LUMINANCE SIGNAL
RECORD COLOR SIGNAL
RECORD LUMINANCE SIGNAL
TUNER VIDEO SIGNAL
DIGITAL AUDIO SIGNAL (PB)
DVD_V_OUT
DVD_A_OUT-R
DVD_A_OUT-L
DVD IN/OUT

POWER BLOCK DIAGRAM

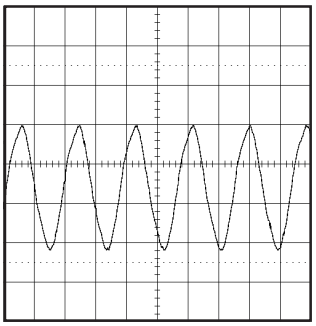



CP502
LED AT+5.2V 14
TUNER 32V 13
P.FAIL 12
GND 11
GND 10
POWER ON H 9
UNREG 3.3V 8
UNREG 3.3V 7
AT 5.2V 6
AT 5.2V 5
AT +13V 4
MOTOR GND 3
MOTOR +12V 2
MOTOR +24V 1
REGULATOR
9V REG
IC502
KIA7809API
1
2
3
Q504
P.CON+B SW.
Q505
P.CON5V SW.
Q506
P.CON SW.
CP503
P.CON+5V D 6
GND 5
P.CON+5V A 4
GND 3
P.CON+9V A 2
MOTOR GND 1
DVD

WAVEFORMS

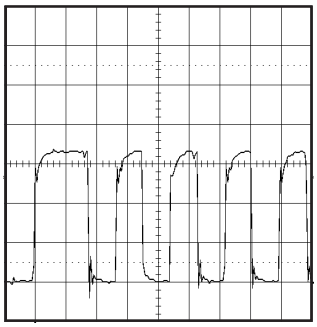
MPEG

20ns
1.00V



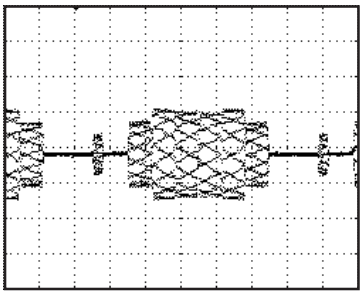
①

0.2µs
1.0V



⑥

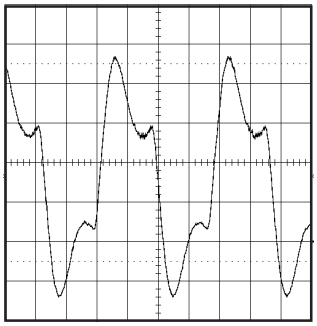
10µs
500mV



⑪

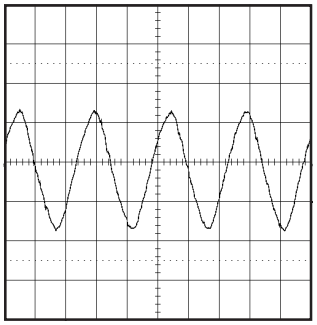
SDRAM

10ns
1.0V



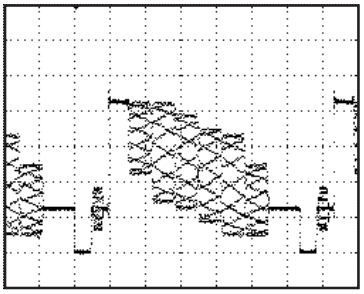
②

5ns
2.0V



⑦

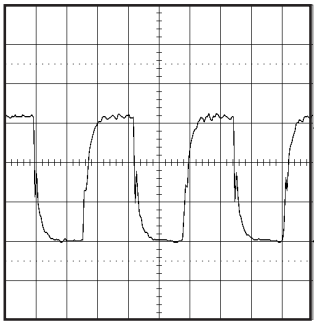
10µs
500mV



⑫

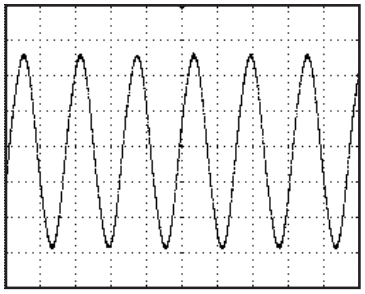
DVD SYSCON

0.2µs
1.0V



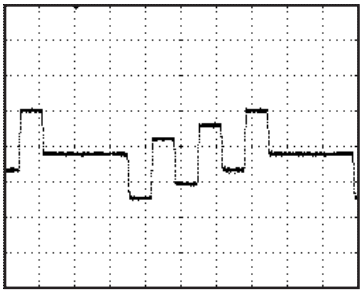
③

20ns
2.0V



⑧

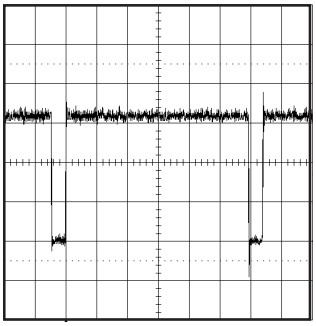
10µs
500mV



⑬

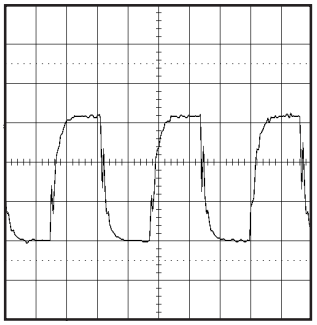
VIDEO ENCORDER

10µs
1.0V



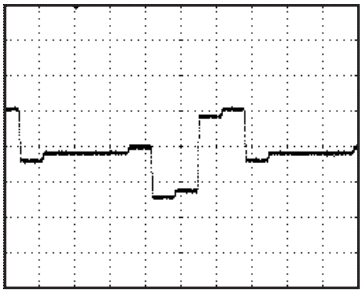
④

0.2µs
1.0V



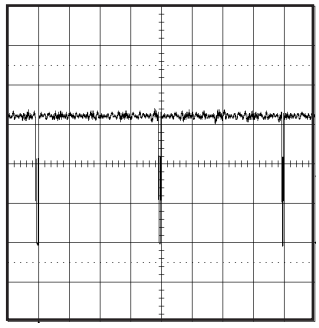
⑨

10µs
500mV



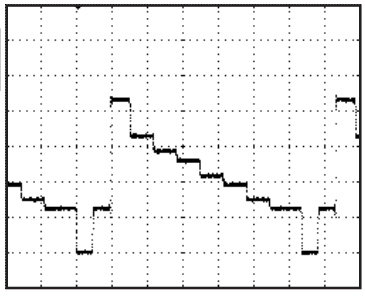
⑭

5ms
1.0V



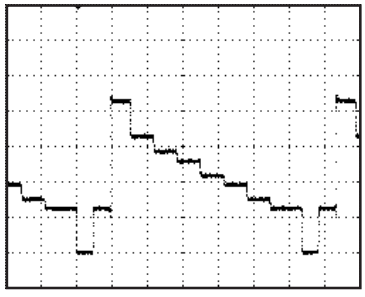
⑤

10µs
500mV



⑩

10µs
500mV



⑮

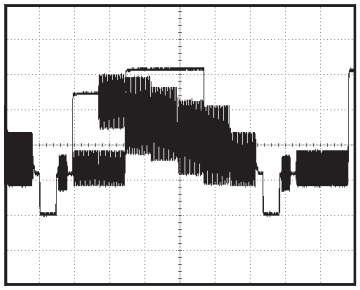
NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

WAVEFORMS

Y/C/AUDIO/CCD/HEAD AMP

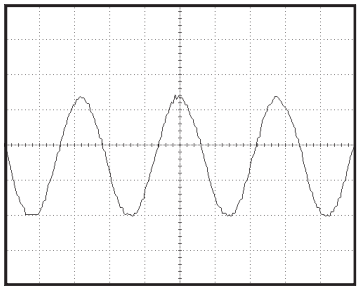
10µs
500mV

⑯



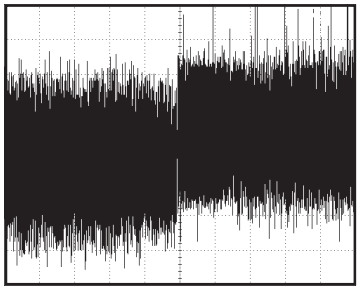
100ns
100mV

⑰



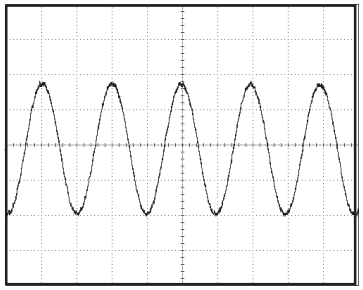
1ms
100mV

⑱



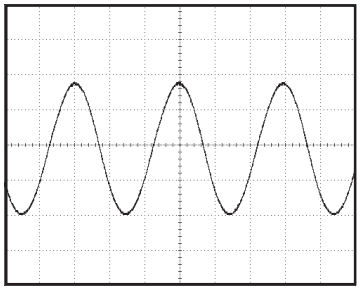
200ms
500mV

⑲



5µs
20V

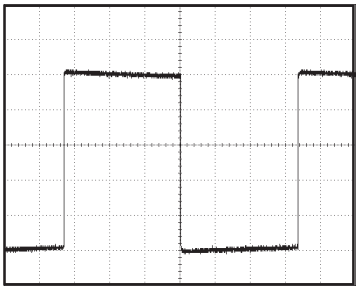
⑳



VCR SYSCON

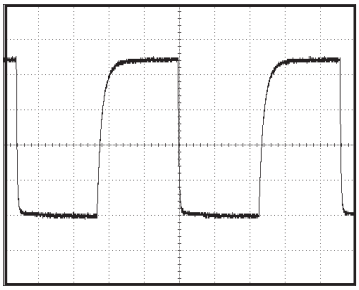
5ms
1.0V

㉑



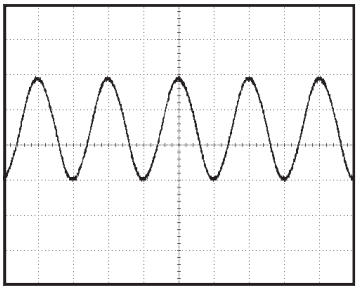
200µs
1.0V

㉒



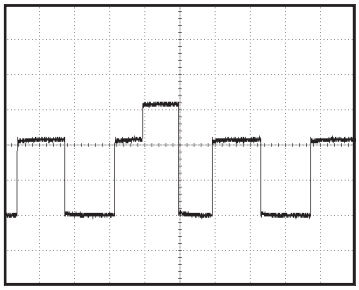
50ns
1.0V

㉓



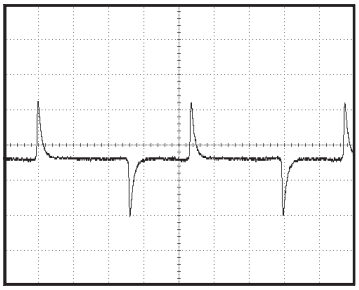
500µs
1.0V

㉔



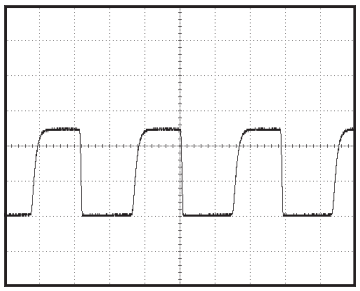
5ms
500mV

㉕



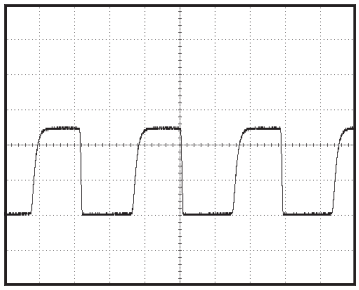
5ms
2.0V

㉖



5ms
2.0V

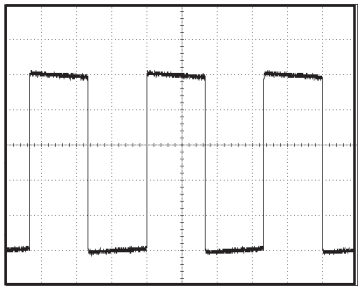
㉗



HI-FI/DEMODULATOR

10ms
1.0V

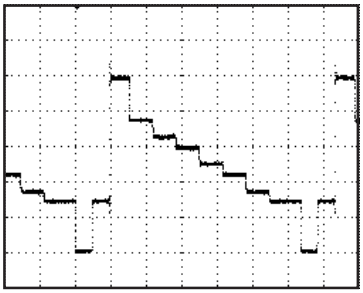
㉘



TUNER/JACK

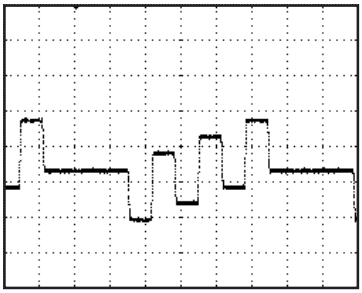
10µs
200mV

㉙



10µs
200mV

㉚

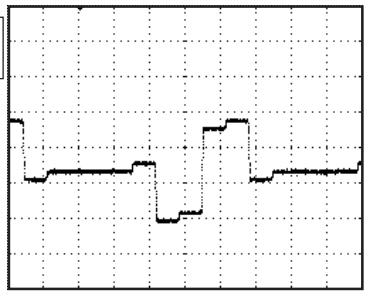


NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

WAVEFORMS

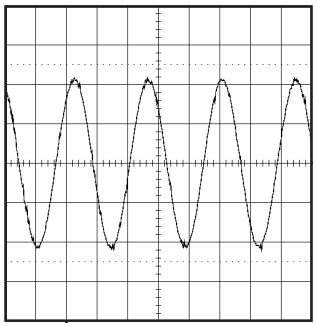
DVD IN/OUT

10µs
200mV



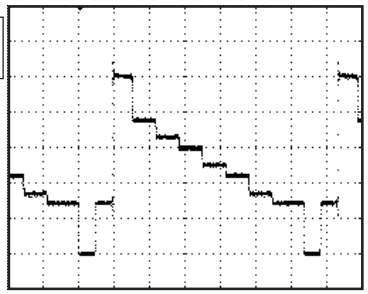
31

1ms
100mV



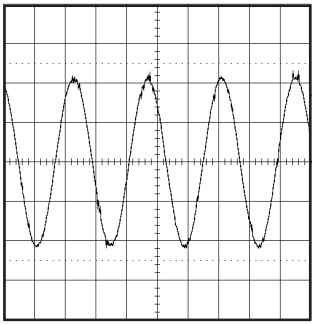
36

10µs
200mV



32

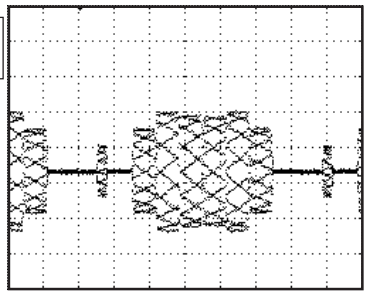
1ms
100mV



37

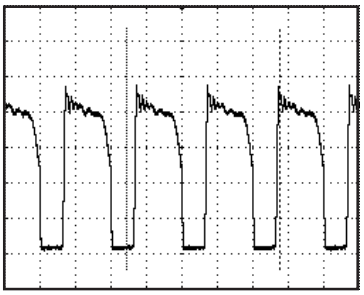
POWER

10µs
200mV



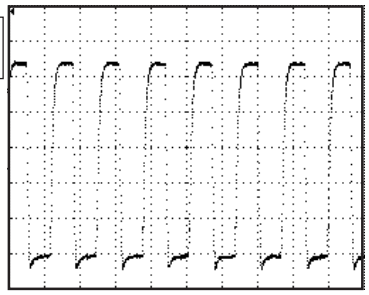
33

5µs
500mV



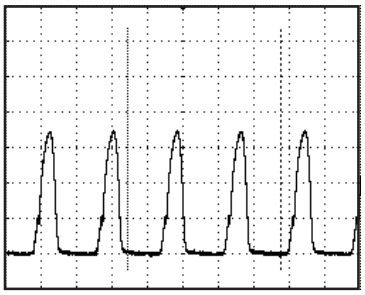
38

500ns
100mV



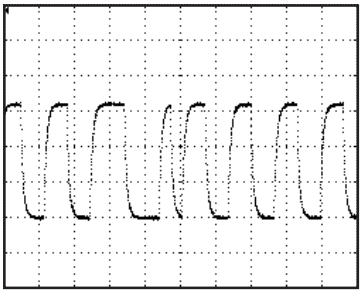
34

5µs
5.0V



39

500ns
1.0V



35

NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

JVC
VICTOR COMPANY OF JAPAN, LIMITED
VIDEO DIVISION

S40894

Printed in Japan

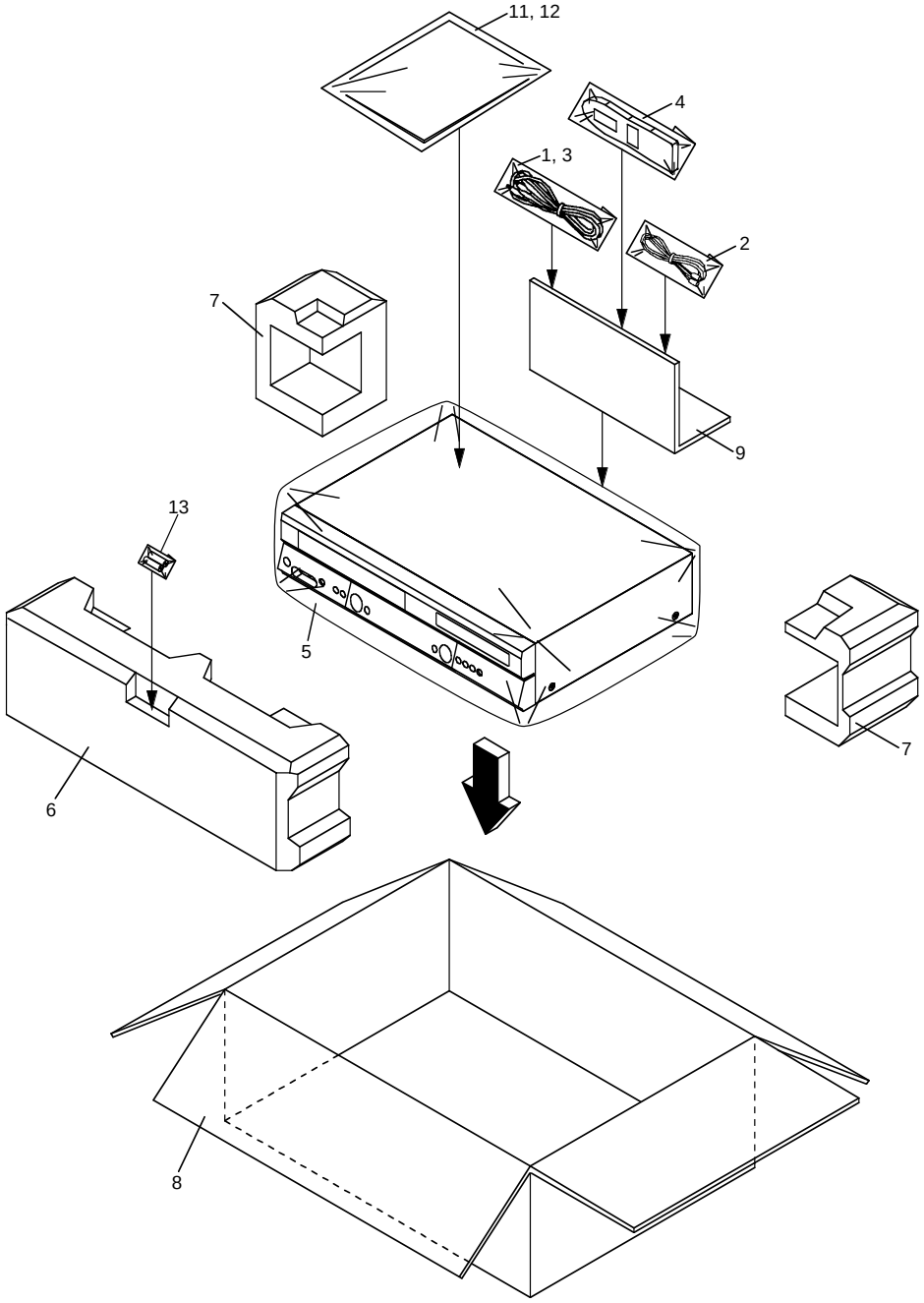
PARTS LIST

SAFETY PRECAUTION

Parts identified by the ⚠ symbol are critical for safety. Replace only with specified part numbers.

1. PACKING AND ACCESSORY ASSEMBLY <M1>

The instruction manual to be provided with this product will differ according to the destination.



# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION
**********			

PACKING AND ACCESSORY ASSEMBLY <M1>

	1	PEAC0294-031	CABLE
	2	X-06CQBA2001	CORD,RCA PIN
	3	PEMC1012	SOCKET,AC
	4	X-076D0FB010	TRANSMITTER
	5	X-791WHA0100	GIFT SHEET
	6	X-792WHA0356	PACKAGE,FRONT
	7	X-792WHA0358	PACKAGE,BACK
	8	X-793WCDB269	GIFT BOX
	9	X-795WCA0662	PAD,DVD/VR
	10	X-A2A309A975	INSTRUCTION BOOK KIT
	11	X-JB5UD100	POLYBAG,INSTRUCTION(RED CAUTION)
	12	X-J2A30901	INSTRUCTION BOOK(LPT0708-001A)
	13	———	BATTERY,X2

2. ELECTRICAL PARTS LIST

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
**********			
	VCR MT BOARD ASSEMBLY <03>		
PCB010	X-A2A309E010	PCBASS'Y	
R101	NRSA02J-561X	MG RESISTOR	560Ω,1/10W
R102	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
R103	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
R104	X-R002T46R8J	RESISTOR	6.8Ω,1/4W
R105	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
R106	NRSA02J-682X	MG RESISTOR	6.8KΩ,1/10W
R107	NRSA02J-332X	MG RESISTOR	3.3KΩ,1/10W
R108	NRSA02J-223X	MG RESISTOR	22KΩ,1/10W
R110	NRSA02J-822X	MG RESISTOR	8.2KΩ,1/10W
R111	NRSA02J-822X	MG RESISTOR	8.2KΩ,1/10W
R112	NRSA02J-334X	MG RESISTOR	330KΩ,1/10W
R113	NRSA02J-221X	MG RESISTOR	220Ω,1/10W
R114	NRSA02J-183X	MG RESISTOR	18KΩ,1/10W
R115	NRSA02J-821X	MG RESISTOR	820Ω,1/10W
R116	NRSA02J-153X	MG RESISTOR	15KΩ,1/10W
R117	NRSA02J-682X	MG RESISTOR	6.8KΩ,1/10W
R119	NRSA02J-222X	MG RESISTOR	2.2KΩ,1/10W
R120	NRSA02J-221X	MG RESISTOR	220Ω,1/10W
R121	QRE141J-102Y	RESISTOR	1KΩ,1/4W
R122	NRSA02J-104X	MG RESISTOR	100KΩ,1/10W
R123	QRE141J-222Y	RESISTOR	2.2KΩ,1/4W
R124	NRSA02J-823X	MG RESISTOR	82KΩ,1/10W
R127	NRSA02J-684X	MG RESISTOR	680KΩ,1/10W
R129	QRE141J-182Y	RESISTOR	1.8KΩ,1/4W
R131	NRSA02J-152X	MG RESISTOR	1.5KΩ,1/10W
R132	NRSA02J-332X	MG RESISTOR	3.3KΩ,1/10W
R133	NRSA02J-822X	MG RESISTOR	8.2KΩ,1/10W
R136	NRSA02J-223X	MG RESISTOR	22KΩ,1/10W
R137	QRE141J-123Y	RESISTOR	12KΩ,1/4W
R138	NRSA02J-223X	MG RESISTOR	22KΩ,1/10W
R139	NRSA02J-123X	MG RESISTOR	12KΩ,1/10W
R142	NRSA02J-821X	MG RESISTOR	820Ω,1/10W
R301	NRSA02J-223X	MG RESISTOR	22KΩ,1/10W
R302	NRSA02J-102X	MG RESISTOR	1KΩ,1/10W
R304	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
R651	NRSA02J-101X	MG RESISTOR	100Ω,1/4W
R653	NRSA02J-331X	MG RESISTOR	330Ω,1/10W
R657	NRSA02J-272X	MG RESISTOR	2.7KΩ,1/10W
R658	NRSA02J-182X	MG RESISTOR	1.8KΩ,1/10W
R659	NRSA02J-152X	MG RESISTOR	1.5KΩ,1/10W
R661	NRSA02J-821X	MG RESISTOR	820Ω,1/10W
R662	NRSA02J-181X	MG RESISTOR	180Ω,1/10W
R663	NRSA02J-181X	MG RESISTOR	180Ω,1/10W
R664	NRSA02J-821X	MG RESISTOR	820Ω,1/10W
R665	NRSA02J-181X	MG RESISTOR	180Ω,1/10W
R666	NRSA02J-181X	MG RESISTOR	180Ω,1/10W
R667	NRSA02J-181X	MG RESISTOR	180Ω,1/10W
R668	NRSA02J-181X	MG RESISTOR	180Ω,1/10W
R669	NRSA02J-821X	MG RESISTOR	820Ω,1/10W
R670	NRSA02J-181X	MG RESISTOR	180Ω,1/10W
R671	NRSA02J-821X	MG RESISTOR	820Ω,1/10W
R672	NRSA02J-181X	MG RESISTOR	180Ω,1/10W
R673	NRSA02J-181X	MG RESISTOR	180Ω,1/10W
R674	NRSA02J-181X	MG RESISTOR	180Ω,1/10W
R675	NRSA02J-821X	MG RESISTOR	820Ω,1/10W

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
R701	NRSA02J-391X	MG RESISTOR	390Ω,1/10W
R702	NRSA02J-391X	MG RESISTOR	390Ω,1/10W
R703	NRSA02J-332X	MG RESISTOR	3.3KΩ,1/10W
R704	NRSA02J-332X	MG RESISTOR	3.3KΩ,1/10W
R707	NRSA02J-473X	MG RESISTOR	47KΩ,1/10W
R708	NRSA02J-682X	MG RESISTOR	6.8KΩ,1/10W
R711	NRSA02J-473X	MG RESISTOR	47KΩ,1/10W
R712	NRSA02J-682X	MG RESISTOR	6.8KΩ,1/10W
R714	NRSA02J-273X	MG RESISTOR	27KΩ,1/10W
R716	NRSA02J-332X	MG RESISTOR	3.3KΩ,1/10W
R717	NRSA02J-225X	MG RESISTOR	2.2MΩ,1/10W
R718	NRSA02J-102X	MG RESISTOR	1KΩ,1/10W
R719	NRSA02J-391X	MG RESISTOR	390Ω,1/10W
R720	QRE141J-682Y	RESISTOR	6.8KΩ,1/4W
R1701	QRE141J-221Y	RESISTOR	220Ω,1/4W
R1702	QRE141J-103Y	RESISTOR	10KΩ,1/4W
R1703	X-R002T2221J	RESISTOR	220Ω,1/2W
R1706	QRE141J-392Y	RESISTOR	3.9KΩ,1/4W
R1708	NRSA02J-222X	MG RESISTOR	2.2KΩ,1/10W
R1709	NRSA02J-101X	MG RESISTOR	100Ω,1/4W
R1710	NRSA02J-820X	MG RESISTOR	82Ω,1/10W
R1711	NRSA02F-821X	MG RESISTOR	820Ω,1/10W
R1713	NRSA02F-122X	MG RESISTOR	1.2KΩ,1/10W
R1714	QRE141J-391Y	RESISTOR	390Ω,1/4W
R1715	QRE141J-561Y	RESISTOR	560Ω,1/4W
R1716	QRE141J-222Y	RESISTOR	2.2KΩ,1/4W
R1720	QRE141J-102Y	RESISTOR	1KΩ,1/4W
R3001	NRSA02J-562X	MG RESISTOR	5.6KΩ,1/10W
R3002	QRE141J-121Y	RESISTOR	120Ω,1/4W
R3003	NRSA02J-332X	MG RESISTOR	3.3KΩ,1/10W
R3004	NRSA02J-822X	MG RESISTOR	8.2KΩ,1/10W
R3006	NRSA02J-473X	MG RESISTOR	47KΩ,1/10W
R3007	NRSA02J-682X	MG RESISTOR	6.8KΩ,1/10W
R3008	NRSA02J-102X	MG RESISTOR	1KΩ,1/10W
R3009	NRSA02J-105X	MG RESISTOR	1MΩ,1/10W
R3010	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
R3011	QRE141J-473Y	RESISTOR	47KΩ,1/4W
R3012	NRSA021J-563X	MG RESISTOR	56KΩ,1/10W
R3013	NRSA02J-473X	MG RESISTOR	47KΩ,1/10W
R3014	NRSA021J-563X	MG RESISTOR	56KΩ,1/10W
R3015	QRE141J-473Y	RESISTOR	47KΩ,1/4W
R3017	NRSA02J-561X	MG RESISTOR	560Ω,1/10W
R3019	NRSA02J-473X	MG RESISTOR	47KΩ,1/10W
R3020	NRSA02J-561X	MG RESISTOR	560Ω,1/10W
R3022	NRSA02J-154X	MG RESISTOR	150KΩ,1/10W
R3024	NRSA02J-153X	MG RESISTOR	15KΩ,1/10W
R3025	NRSA02J-471X	MG RESISTOR	470Ω,1/10W
R3026	NRSA02J-822X	MG RESISTOR	8.2KΩ,1/10W
R3027	NRSA02J-153X	MG RESISTOR	15KΩ,1/10W
R3028	NRSA02J-473X	MG RESISTOR	47KΩ,1/10W
R3029	NRSA02J-473X	MG RESISTOR	47KΩ,1/10W
R3030	NRSA02J-562X	MG RESISTOR	5.6KΩ,1/10W
R3031	NRSA02J-105X	MG RESISTOR	1MΩ,1/10W
R3032	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
R3033	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
R3034	NRSA02J-105X	MG RESISTOR	1MΩ,1/10W
R3037	NRSA02J-473X	MG RESISTOR	47KΩ,1/10W
R3038	QRE141J-223Y	RESISTOR	22KΩ,1/4W
R3039	NRSA02J-223X	MG RESISTOR	22KΩ,1/10W
R3041	NRSA02J-271X	MG RESISTOR	270Ω,1/10W
R3043	NRSA02J-474X	MG RESISTOR	470KΩ,1/10W

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
		R3044	NRSA02J-332X	MG RESISTOR	3.3KΩ,1/10W
		R3045	NRSA02J-332X	MG RESISTOR	3.3KΩ,1/10W
		R3046	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
		R3047	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
		R3049	NRSA02J-473X	MG RESISTOR	47KΩ,1/10W
		R3050	NRSA02J-101X	MG RESISTOR	100Ω,1/4W
		R3051	NRSA02J-183X	MG RESISTOR	18KΩ,1/10W
		R3053	NRSA02J-474X	MG RESISTOR	470KΩ,1/10W
		R3055	QRE141J-223Y	RESISTOR	22KΩ,1/4W
		R3056	QRE141J-102Y	RESISTOR	1KΩ,1/4W
		R3057	NRSA02J-223X	MG RESISTOR	22KΩ,1/10W
		R3062	NRSA02J-102X	MG RESISTOR	1KΩ,1/10W
		R3063	NRSA02J-102X	MG RESISTOR	1KΩ,1/10W
		R3083	NRSA02J-333X	MG RESISTOR	33KΩ,1/10W
		R3087	NRSA02J-333X	MG RESISTOR	33KΩ,1/10W
		R8002	NRSA02J-100X	MG RESISTOR	10Ω,1/10W
		R8003	NRSA02J-680X	MG RESISTOR	68Ω,1/10W
		R8004	NRSA02J-121X	MG RESISTOR	120Ω,1/10W
		R8005	NRSA02J-100X	MG RESISTOR	10Ω,1/10W
		R8006	NRSA02J-100X	MG RESISTOR	10Ω,1/10W
		R8007	NRSA02J-100X	MG RESISTOR	10Ω,1/10W
		R8008	NRSA02J-150X	MG RESISTOR	15Ω,1/10W
		R8009	X-R002T2471J	RESISTOR	470Ω,1/2W
		R8010	NRSA02J-750X	MG RESISTOR	75Ω,1/10W
		R8011	NRSA02J-101X	MG RESISTOR	100Ω,1/10W
		R8014	NRSA02J-391X	MG RESISTOR	390Ω,1/10W
		R8015	QRE141J-391Y	RESISTOR	390Ω,1/4W
		R8016	NRSA02J-102X	MG RESISTOR	1KΩ,1/10W
		R8017	NRSA02J-102X	MG RESISTOR	1KΩ,1/10W
		R8019	NRSA02J-750X	MG RESISTOR	75Ω,1/10W
		R8020	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
		R8021	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
		R8022	QRE141J-560Y	RESISTOR	56Ω,1/4W
		R8023	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
		R8024	X-R002T4104J	RESISTOR	100KΩ,1/4W
		R8025	NRSA02J-104X	MG RESISTOR	100KΩ,1/10W
		R8026	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
		R8027	NRSA02J-102X	MG RESISTOR	1KΩ,1/10W
		R8028	NRSA02J-150X	MG RESISTOR	15Ω,1/10W
		R8029	NRSA02J-150X	MG RESISTOR	15Ω,1/10W
		R8030	NRSA02J-150X	MG RESISTOR	15Ω,1/10W
		R8031	NRSA02J-102X	MG RESISTOR	1KΩ,1/10W
		R8032	QRE141J-471Y	RESISTOR	470Ω,1/4W
		R8033	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
		R8034	QRE141J-471Y	RESISTOR	470Ω,1/4W
		R8044	NRSA02J-123X	MG RESISTOR	12KΩ,1/10W
		R8045	NRSA02J-102X	MG RESISTOR	1KΩ,1/10W
		R8046	NRSA02J-102X	MG RESISTOR	1KΩ,1/10W
		R8047	NRSA02J-102X	MG RESISTOR	1KΩ,1/10W
		R8048	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
		R8049	NRSA02J-103X	MG RESISTOR	10KΩ,1/10W
		R8050	NRSA02J-123X	MG RESISTOR	12KΩ,1/10W
		R8051	NRSA02J-123X	MG RESISTOR	12KΩ,1/10W
		R8052	NRSA02J-822X	MG RESISTOR	8.2KΩ,1/10W
		R8053	NRSA02J-272X	MG RESISTOR	2.7KΩ,1/10W
		R8054	NRSA02J-822X	MG RESISTOR	8.2KΩ,1/10W
		R8056	NRSA02J-272X	MG RESISTOR	2.7KΩ,1/10W
		R8057	QRE141J-121Y	RESISTOR	120Ω,1/4W
		R8058	QRE141J-121Y	RESISTOR	120Ω,1/4W
		R8065	NRSA02J-471X	MG RESISTOR	470Ω,1/10W
		R8067	NRSA02J-471X	MG RESISTOR	470Ω,1/10W

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
		R8068	NRSA02J-474X	MG RESISTOR	470KΩ,1/10W
		R8069	NRSA02J-472X	MG RESISTOR	4.7KΩ,1/10W
		R8072	NRSA02J-470X	MG RESISTOR	47Ω,1/10W
		R8073	NRSA02J-470X	MG RESISTOR	47Ω,1/10W
		R8082	NRSA02J-332X	MG RESISTOR	3.3KΩ,1/10W
		C101	X-P235W1223J	CAPACITOR	0.022μF,100V MKT
		C103	X-E524U0220D	E CAPACITOR	22μF,6.3V
		C104	QETN0JM-227Z	E CAPACITOR	220μF,6.3V
		C105	X-E524U0220D	E CAPACITOR	22μF,6.3V
		C106	NCB21HK-103X	CAPACITOR	0.01μF,50V
		C107	NCB21HK-153X	CAPACITOR	0.015μF,50V
		C109	NCB21EK-104X	CAPACITOR	0.1μF,25V
		C110	QETN1CM-476Z	E CAPACITOR	47μF,16V
		C112	QETN0JM-227Z	E CAPACITOR	220μF,6.3V
		C114	NCB21EK-104X	CAPACITOR	0.1μF,25V
		C115	QETN1EM-336Z	E CAPACITOR	33μF,25V
		C116	NCF21HZ-104X	CAPACITOR	0.1μF,50V
		C118	NCB21HK-103X	CAPACITOR	0.01μF,50V
		C119	QETN1HM-106Z	E CAPACITOR	10μF,50V
		C120	QEKJ1HM-105Z	E CAPACITOR	1μF,50V
		C121	NCB21HK-272X	CAPACITOR	0.0027μF,50V
		C122	NCB21HK-122X	CAPACITOR	0.0012μF,50V
		C123	X-E02LU54R7M	E CAPACITOR	4.7μF,50V
		C124	QETN1HM-105Z	E CAPACITOR	1μF,50V
		C125	X-CS0KB04N2K	CAPACITOR	390pF,50V
		C126	NCB21EK-104X	CAPACITOR	0.1μF,25V
		C127	X-CS0RCH4E2J	CAPACITOR	150pF,50V
		C128	NDC21HJ-390X	CAPACITOR	39pF,50V
		C129	X-CS0KCH4H1J	CAPACITOR	22pF,50V
		C130	NCB21EK-104X	CAPACITOR	0.1μF,25V
		C131	QETN0JM-107Z	E CAPACITOR	100μF 6.3V
		C132	QETN1HM-105Z	E CAPACITOR	1μF,50V
		C133	QETN1HM-105Z	E CAPACITOR	1μF,50V
		C134	QETN1HM-105Z	E CAPACITOR	1μF,50V
		C135	X-E02LU5R22M	E CAPACITOR	0.22μF,50V
		C136	QETN1VM-226Z	E CAPACITOR	22μF,35V
		C137	QETN1HM-105Z	E CAPACITOR	1μF,50V
		C138	QETN1HM-105Z	E CAPACITOR	1μF,50V
		C139	NCF21HZ-104X	CAPACITOR	0.1μF,50V
		C140	QEKJ1HM-475Z	E CAPACITOR	4.7μF,50V
		C141	NCB21HK-103X	CAPACITOR	0.01μF,50V
		C142	QETN1CM-476Z	E CAPACITOR	47μF,16V
		C143	NCF21HZ-104X	CAPACITOR	0.1μF,50V
		C144	NCB21HK-103X	CAPACITOR	0.01μF,50V
		C145	NCB21HK-223X	CAPACITOR	0.022μF,50V
		C146	QEKJ1HM-105Z	E CAPACITOR	1μF,50V
		C147	NCB21HK-223X	CAPACITOR	0.022μF,50V
		C148	QEKJ1HM-105Z	E CAPACITOR	1μF,50V
		C151	QEKJ1HM-105Z	E CAPACITOR	1μF,50V
		C152	QETN1CM-476Z	E CAPACITOR	47μF,16V
		C154	NCB21EK-104X	CAPACITOR	0.1μF,25V
		C155	NCB21EK-104X	CAPACITOR	0.1μF,25V
		C156	NCF21HZ-104X	CAPACITOR	0.1μF,50V
		C158	NCB21EK-104X	CAPACITOR	0.1μF,25V
		C162	NCB21EK-104X	CAPACITOR	0.1μF,25V
		C163	X-E524U0470D	E CAPACITOR	47μF,6.3V
		C165	NCF21HZ-473X	CAPACITOR	0.047μF,50V
		C166	NCB21HK-683X	CAPACITOR	0.068μF,50V
		C169	NCF21HZ-473X	CAPACITOR	0.047μF,50V
		C172	NDC21HJ-220X	CAPACITOR	22pF, 50V
		C303	NCF21HZ-104X	CAPACITOR	0.1μF,50V

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C304	NCF21HZ-103X	CAPACITOR	0.01µF,50V
C308	QETN0JM-227Z	E CAPACITOR	220µF,6.3V
C309	QETN0JM-227Z	E CAPACITOR	220µF,6.3V
C313	QEKJ1CM-106Z	E CAPACITOR	10µF,16V
C316	NCF21HZ-104X	CAPACITOR	0.1µF,50V
C652	QETN0JM-107Z	E CAPACITOR	100µF 6.3V
C701	NCB21HK-223X	CAPACITOR	0.022µF,50V
C702	X-E02LU53R3M	E CAPACITOR	3.3µF,50V
C703	QETN1HM-106Z	E CAPACITOR	10µF,50V
C704	QETN1HM-106Z	E CAPACITOR	10µF,50V
C705	QETN1HM-106Z	E CAPACITOR	10µF,50V
C706	QETN1HM-106Z	E CAPACITOR	10µF,50V
C707	NCB21EK-104X	CAPACITOR	0.1µF,25V
C708	QETN1HM-106Z	E CAPACITOR	10µF,50V
C709	QETN1HM-106Z	E CAPACITOR	10µF,50V
C711	QETN1HM-106Z	E CAPACITOR	10µF,50V
C713	QEKJ1CM-106Z	E CAPACITOR	10µF,16V
C714	QETN1HM-106Z	E CAPACITOR	10µF,50V
C715	NDC21HJ-681X	CAPACITOR	680pF,50V
C716	X-E524U5010D	E CAPACITOR	1µF,50V
C719	QETN1HM-106Z	E CAPACITOR	10µF,50V
C720	X-E524U0330D	E CAPACITOR	33µF,6.3V
C721	NDC21HJ-681X	CAPACITOR	680pF,50V
C722	NCB21EK-104X	CAPACITOR	0.1µF,25V
C723	NCF21HZ-103X	CAPACITOR	0.01µF,50V
C724	NCF21HZ-103X	CAPACITOR	0.01µF,50V
C725	NCB21EK-104X	CAPACITOR	0.1µF,25V
C726	NCB21HK-153X	CAPACITOR	0.015µF,50V
C727	QETN1HM-106Z	E CAPACITOR	10µF,50V
C728	X-E524U2100D	E CAPACITOR	10µF,16V
C729	NCB21HK-103X	CAPACITOR	0.01µF,50V
C730	NCB21HK-153X	CAPACITOR	0.015µF,50V
C731	X-E02LU5R22M	E CAPACITOR	0.22µF,50V
C732	NCF21HZ-103X	CAPACITOR	0.01µF,50V
C734	NCB21EK-104X	CAPACITOR	0.1µF,25V
C735	X-E02LU54R7M	E CAPACITOR	4.7µF,50V
C736	NCB21HK-102X	CAPACITOR	0.001µF,50V
C737	QEKJ1HM-475Z	E CAPACITOR	4.7µF,50V
C738	NCF21HZ-103X	CAPACITOR	0.01µF,50V
C739	QEKJ0JM-476Z	E CAPACITOR	47µF,6.3V
C740	QEKJ0JM-336Z	E CAPACITOR	33µF,6.3V
C741	QETN1HM-106Z	E CAPACITOR	10µF,50V
C742	QETN1HM-106Z	E CAPACITOR	10µF,50V
C743	X-E02LU5R22M	E CAPACITOR	0.22µF,50V
C744	NCF21HZ-104X	CAPACITOR	0.1µF,50V
C746	NCB21EK-104X	CAPACITOR	0.1µF,25V
C747	QETN1HM-106Z	E CAPACITOR	10µF,50V
C748	NCF21HZ-104X	CAPACITOR	0.1µF,50V
C749	NCF21HZ-104X	CAPACITOR	0.1µF,50V
C751	NCF21HZ-104X	CAPACITOR	0.1µF,50V
C752	QETN1VM-226Z	E CAPACITOR	22µF,35V
C754	QETN1CM-476Z	E CAPACITOR	47µF,16V
C755	NCB21HK-223X	CAPACITOR	0.022µF,50V
C756	QETN1HM-106Z	E CAPACITOR	10µF,50V
C757	QETN1HM-106Z	E CAPACITOR	10µF,50V
C758	QETN1VM-226Z	E CAPACITOR	22µF,35V
C759	QETN1VM-226Z	E CAPACITOR	22µF,35V
C760	QEKJ1HM-105Z	E CAPACITOR	1µF,50V
C761	X-E524U0470D	E CAPACITOR	47µF,6.3V
C762	NDC21HJ-681X	CAPACITOR	680pF,50V
C763	NDC21HJ-681X	CAPACITOR	680pF,50V
C764	X-E02LU52R2M	E CAPACITOR	2.2µF,50V
C1702	QETN1HM-105Z	E CAPACITOR	1µF,50V
C1703	QETN1HM-106Z	E CAPACITOR	10µF,50V
C1706	QETN1VM-226Z	E CAPACITOR	22µF,35V
C1708	QETN0JM-477Z	E CAPACITOR	470µF,6.3V
C1713	QETN0JM-477Z	E CAPACITOR	470µF,6.3V
C3001	X-CS0RB0216K	CAPACITOR	1µF,16V
C3003	QEKJ1CM-106Z	E CAPACITOR	10µF,16V
C3004	NCB21HK-223X	CAPACITOR	0.022µF,50V
C3007	NCB21EK-104X	CAPACITOR	0.1µF,25V
C3008	NCB21HK-472X	CAPACITOR	0.0047µF,50V
C3009	NCB21EK-104X	CAPACITOR	0.1µF,25V
C3010	NCB21HK-102X	CAPACITOR	0.001µF,50V
C3013	QEKJ0JM-226Z	E CAPACITOR	22µF,6.3V
C3014	NCF21HZ-104X	CAPACITOR	0.1µF,50V
C3015	NDC21HJ-821X	CAPACITOR	820pF,50V
C3016	QEKJ0JM-476Z	E CAPACITOR	47µF,6.3V
C3017	X-CS0KCH4B1J	CAPACITOR	12pF,50V CH
C3018	X-CS0RCH4E2J	CAPACITOR	150pF,50V
C3019	NCB21EK-104X	CAPACITOR	0.1µF,25V
C3020	NCB21HK-223X	CAPACITOR	0.022µF,50V
C3021	QEKJ1CM-106Z	E CAPACITOR	10µF,16V
C3022	NDC21HJ-471X	CAPACITOR	470pF,50V
C3023	QETN0JM-227Z	E CAPACITOR	220µF,6.3V
C3024	X-CS0KCH4G1J	CAPACITOR	18pF,50V CH
C3025	X-CS0KCH4G1J	CAPACITOR	18pF,50V CH
C3027	NCF21HZ-104X	CAPACITOR	0.1µF,50V
C3029	QEKJ0JM-476Z	E CAPACITOR	47µF,6.3V
C3030	NCF21HZ-104X	CAPACITOR	0.1µF,50V
C3031	NCB21HK-152X	CAPACITOR	0.0015µF,50V
C3032	QEKJ1HM-225Z	E CAPACITOR	2.2µF,50V
C3033	QETN1VM-337Z	E CAPACITOR	330µF,35V
C3034	NCF21EZ-105X	CAPACITOR	1µF,25V
C3036	NCF21HZ-104X	CAPACITOR	0.1µF,50V
C3038	NCF21EZ-105X	CAPACITOR	1µF,25V
C3039	X-CS0KCH4B1J	CAPACITOR	12pF,50V CH
C3041	X-CQGTB04Q3K	CAPACITOR	0.0047µF,50V
C3044	X-CS0KCH4B1J	CAPACITOR	12pF,50V CH
C3045	QEKJ1HM-474Z	E CAPACITOR	0.47µF,50V
C3046	X-CS0KCH4E1J	CAPACITOR	15pF,50V CH
C3047	X-CS0KCH4E1J	CAPACITOR	15pF,50V CH
C3049	NDC21HJ-101X	CAPACITOR	100pF,50V
C3050	NCB21HK-103X	CAPACITOR	0.01µF,50V
C3052	QEKJ0JM-226Z	E CAPACITOR	22µF,6.3V
C3053	NCB21EK-104X	CAPACITOR	0.1µF,25V
C3061	NCF21HZ-104X	CAPACITOR	0.1µF,50V
C3065	NCF21HZ-104X	CAPACITOR	0.1µF,50V
C8008	NDC21HJ-101X	CAPACITOR	100pF,50V
C8009	QETN0JM-477Z	E CAPACITOR	470µF,6.3V
C8010	NCB21EK-104X	CAPACITOR	0.1µF,25V
C8011	NDC21HJ-101X	CAPACITOR	100pF,50V
C8012	NCB21EK-104X	CAPACITOR	0.1µF,25V
C8013	QETN1HM-106Z	E CAPACITOR	10µF,50V
C8015	QETN0JM-477Z	E CAPACITOR	470µF,6.3V
C8019	QEKJ1CM-106Z	E CAPACITOR	10µF,16V
C8020	QEKJ1CM-106Z	E CAPACITOR	10µF,16V
C8021	QEKJ1CM-106Z	E CAPACITOR	10µF,16V
C8022	X-E62KU52R2M	E CAPACITOR	2.2µF,50V
C8023	X-E62KU52R2M	E CAPACITOR	2.2µF,50V
C8024	QEKJ1CM-106Z	E CAPACITOR	10µF,16V
C8025	NDC21HJ-821X	CAPACITOR	820pF,50V

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
		C8026	NCF21HZ-103X	CAPACITOR	0.01µF,50V
		C8027	QETN1CM-227Z	E CAPACITOR	220µF,16V
		C8028	QEKJ1CM-106Z	E CAPACITOR	10µF,16V
		C8029	QEKJ1CM-106Z	E CAPACITOR	10µF,16V
		C8030	QEKJ1CM-106Z	E CAPACITOR	10µF,16V
		C8031	QEKJ1HM-475Z	E CAPACITOR	4.7µF,50V
		C8032	QEKJ1HM-475Z	E CAPACITOR	4.7µF,50V
		C8033	QEKJ1CM-106Z	E CAPACITOR	10µF,16V
		C8037	QETN0JM-477Z	E CAPACITOR	470µF,6.3V
		C8038	QETN0JM-477Z	E CAPACITOR	470µF,6.3V
		C8039	QETN0JM-477Z	E CAPACITOR	470µF,6.3V
		C8043	QEKJ1CM-106Z	E CAPACITOR	10µF,16V
		C8048	QETN0JM-477Z	E CAPACITOR	470µF,6.3V
		C8050	NCB21EK-563X	CAPACITOR	0.056µF,25V
		C8051	NCB21EK-104X	CAPACITOR	0.1µF,25V
		C8052	QEKJ1HM-475Z	E CAPACITOR	4.7µF,50V
		C8064	NDC21HJ-821X	CAPACITOR	820pF,50V
		C8065	QEKJ1AM-336Z	E CAPACITOR	33 µF,10V
		C8066	QETN1AM-107Z	E CAPACITOR	100µ,10V
		C8069	QEKJ1CM-106Z	E CAPACITOR	10µF,16V
		C8070	NCB21HK-152X	CAPACITOR	0.0015µF,50V
		C8077	NCB21HK-152X	CAPACITOR	0.0015µF,50V
		C8079	NDC21HJ-101X	CAPACITOR	100pF,50V
		C8081	NDC21HJ-101X	CAPACITOR	100pF,50V
		C8083	QEKJ1CM-106Z	E CAPACITOR	10µF,16V
		C8086	QEKJ1CM-106Z	E CAPACITOR	10µF,16V
		C8090	NCF21HZ-104X	CAPACITOR	0.1µF,50V
		C8094	QEKJ0JM-476Z	E CAPACITOR	47µF,6.3V
		C8095	NCB21HK-223X	CAPACITOR	0.022µF,50V
		C8096	NCF21HZ-104X	CAPACITOR	0.1µF,50V
		C8097	QEKJ0JM-476Z	E CAPACITOR	47µF,6.3V
		C8098	NCF21HZ-104X	CAPACITOR	0.1µF,50V
		C8099	NDC21HJ-471X	CAPACITOR	470pF,50V
		C8100	NDC21HJ-471X	CAPACITOR	470pF,50V
		C8102	QEKJ1HM-225Z	E CAPACITOR	2.2µF,50V
		C8103	QETN1CM-477Z	E CAPACITOR	470µF,16V
		C8104	QEKJ1CM-226Z	E CAPACITOR	22µF,16V
		C8105	QEKJ1CM-226Z	E CAPACITOR	22µF,16V
		C8106	QEKJ1HM-225Z	E CAPACITOR	2.2µF,50V
		C8117	NCB21HK-472X	CAPACITOR	0.0047µF,50V
		C8118	NCB21HK-472X	CAPACITOR	0.0047µF,50V
		D651	X-0021E5Q210	LED	LTL-1CHGE-002A
		D656	X-D2WXN40050	DIODE	1N4005-EIC
		D701	1SS133-T2	DIODE	
		D1701	MTZJ13B-T2	ZENER	
		D1702	1SS133-T2	DIODE	
		D1706	MTZJ10B-T2	ZENER	
		D1709	X-D2WXN40050	DIODE	1N4005-EIC
		D3001	X-0010100320	INFRARED LED	LNA2702L010R
		D3007	1SS133-T2	DIODE	
		D3009	1SS133-T2	DIODE	
		D8002	MTZJ6.8B-T2	ZENER	
		D8004	1SS133-T2	DIODE	
		D8010	1SS133-T2	DIODE	
		D8011	MTZJ5.6B-T2	ZENER	
		D8012	MTZJ5.6B-T2	ZENER	
		D8013	MTZJ5.6B-T2	ZENER	
		D8014	MTZJ5.6B-T2	ZENER	
		D8015	MTZJ5.6B-T2	ZENER	
		V651	X-0040F94005	LEDDISPLAY	ELF-4M6SDRSOWB
		IC101	X-I03F3205M0	IC	LA71205M-MPB

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
		IC701	AN3663FBP	IC	
		IC3001	X-I54F50110A	IC	OEC0110A
		IC3003	X-I9UF032310	IC	PST3231NR
		IC3099	X-A2A309A015	IC	S-24C02BDP-1A
		IC8001	X-I0QF02283V	IC	NJM2283V
		IC8004	X-I0QF045800	IC	NJM4580M
		IC8007	X-I01F07399A	IC	AN7399S-E1
		Q101	X-TCATC31980	TRANSISTOR	KTC3198-AT(Y,GR)
		Q102	X-TCATC31980	TRANSISTOR	KTC3198-AT(Y,GR)
		Q103	X-TPAAC05002	TRANSISTOR	KRA103SRTK
		Q104	X-TCAT032034	TRANSISTOR	KTC3203_Y-AT
		Q105	X-TAATA12660	TRANSISTOR	KTA1266-AT(Y,GR)
		Q106	2SA1037AK/RS/-X	TRANSISTOR	
		Q107	2SA1037AK/RS/-X	TRANSISTOR	
		Q109	2SC2412K/RS/-X	TRANSISTOR	
		Q303	KRC103S-X	TRANSISTOR	
		Q651	2SA1037AK/RS/-X	TRANSISTOR	
		Q652	KRC103S-X	TRANSISTOR	
		Q653	KRC103S-X	TRANSISTOR	
		Q654	2SA1037AK/RS/-X	TRANSISTOR	
		Q655	KRC103S-X	TRANSISTOR	
		Q656	KRC103S-X	TRANSISTOR	
		Q657	KRC103S-X	TRANSISTOR	
		Q658	KRC103S-X	TRANSISTOR	
		Q659	2SA1037AK/RS/-X	TRANSISTOR	
		Q660	KRC103S-X	TRANSISTOR	
		Q661	2SA1037AK/RS/-X	TRANSISTOR	
		Q662	KRC103S-X	TRANSISTOR	
		Q663	KRC103S-X	TRANSISTOR	
		Q664	KRC103S-X	TRANSISTOR	
		Q665	2SA1037AK/RS/-X	TRANSISTOR	
		Q666	X-TPAAC05002	TRANSISTOR	KRA103SRTK
	⚠	Q1701	X-TCAT032034	TRANSISTOR	KTC3203_Y-AT
	⚠	Q1702	X-TCAT03209Y	TRANSISTOR	KTC3209_Y-AT
	⚠	Q1703	X-TCAT03209Y	TRANSISTOR	KTC3209_Y-AT
		Q1704	KRC103S-X	TRANSISTOR	
	⚠	Q1705	X-TCAT032034	TRANSISTOR	KTC3203_Y-AT
	⚠	Q1706	X-TB3T011310	TRANSISTOR	2SB1131(S,T)-AE
		Q1707	2SC2412K/RS/-X	TRANSISTOR	
		Q1708	2SC2412K/RS/-X	TRANSISTOR	
	⚠	Q1713	X-TAAT012714	TRANSISTOR	KTA1271_Y-AT
		Q1714	KRC103S-X	TRANSISTOR	
		Q3001	X-0002700690	PHOTO COUPLER	RPI-303
		Q3002	X-0002700690	PHOTO COUPLER	RPI-303
		Q3004	X-0002700680	PHOTO COUPLER	RPI-352C40N
		Q3005	X-0002700680	PHOTO COUPLER	RPI-352C40N
		Q3006	X-0000100380	PHOTO TRANSISTOR	PNA2604M010R
		Q3007	KRC103S-X	TRANSISTOR	
		Q3008	X-0000100380	PHOTO TRANSISTOR	PNA2604M010R
		Q8001	2SA1037AK/RS/-X	TRANSISTOR	
		Q8002	2SC2412K/RS/-X	TRANSISTOR	
		Q8003	KRC103S-X	TRANSISTOR	
		Q8004	X-TAATA12660	TRANSISTOR	KTA1266-AT(Y,GR)
		Q8005	2SC2412K/RS/-X	TRANSISTOR	
		Q8006	2SC2412K/RS/-X	TRANSISTOR	
		Q8007	X-TPAAC05002	TRANSISTOR	KRA103SRTK
		Q8010	X-T8YJ2412K0	TRANSISTORSILICON	2SC2412KT146R,S
		Q8011	X-TNAAD05001	TRANSISTOR	KRC104SRTK
		Q8012	KRC103S-X	TRANSISTOR	
		Q8013	X-TPAAA05001	TRANSISTOR	KRA101SRTK
		Q8014	2SC2412K/RS/-X	TRANSISTOR	

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
		Q8015	2SC2412K/RS/-X	TRANSISTOR	
		B8001	X-024HT03564	CORE,BEADS	
		L101	X-031626009R	COIL,BIAS OSC	
		L102	QQL29BJ-101Z	COIL	100µH
		L104	QQL29BJ-220Z	COIL	22µH
		L105	QQL29BJ-220Z	COIL	22µH
		L106	QQL29BJ-220Z	COIL	22µH
		L107	QQL29BJ-220Z	COIL	22µH
		L301	X-021673101K	COIL	100µH
		L302	QQL29BJ-220Z	COIL	22µH
		L701	QQL29BJ-220Z	COIL	22µH
		L702	QQL29BJ-220Z	COIL	22µH
		L703	QQL071J-101Y	COIL	100µH
		L704	QQL29BJ-220Z	COIL	22µH
		L3003	X-021LA6120K	COIL	12µH
		L8001	X-021LA6R27M	COIL	0.27µH
		L8002	QQL071J-101Y	COIL	100µH
		L8003	X-021LA6R27M	COIL	0.27µH
		L8007	QQL071J-101Y	COIL	100µH
		L8012	QQL071J-101Y	COIL	100µH
		L8013	QQL071J-101Y	COIL	100µH
		J8001	X-060J411018	RCA JACK	
		J8003	X-060J401087	RCA JACK	
		J8004	X-060J401087	RCA JACK	
		J8005	X-060J421025	RCA JACK	
		J8006	X-063D700005	JACK	
		J8007	X-060J401082	RCA JACK	
		J8008	X-060J411024	RCA JACK	
		J8009	X-060J411020	RCA JACK	
		SW301	X-0510S21041	SLIDE SWITCH	
		SW651	QSW0456-001Z	TACT SWITCH	
		SW652	QSW0456-001Z	TACT SWITCH	
		SW653	QSW0456-001Z	TACT SWITCH	
		SW654	QSW0456-001Z	TACT SWITCH	
		SW655	QSW0456-001Z	TACT SWITCH	
		SW3001	X-0508A11001	SWITCH(LEAF)	
		CP101	X-0697290620	CONNECTOR PCB SIDE	
		CP102	X-069J760029	CONNECTOR PCB SIDE	
		CP103	X-0697120320	CONNECTOR PCB SIDE	
		CP651	X-069J750019	CONNECTOR PCB SIDE	
		CP1701	X-069R2E0589	CONNECTOR PCB SIDE	
		CP3001	X-06972C0010	CONNECTOR PCB SIDE	
		CP8001	X-069S2D0629	CONNECTOR PCB SIDE	
		CP8002	X-069J7I0019	CONNECTOR PCB SIDE	
		X101	NAX0102-001X	CRYSTAL	3.57954MHz
		X3001	QAX0528-001	CRYSTAL	10MHz
		X3002	QAX0236-001	CRYSTAL	32.768KHz
		X3003	QAX0698-001	CRYSTAL	14.31818MHz
	⚠	TU301	X-0162K00027	RF UNIT	
		CUS011	X-800WFAA008	CUSHION C	
		OS651	X-077Q037001	REMOTE RECEIVER	
		OS8001	GP1FA550TZ	OPTICAL DEVICE	

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MPEG MT BOARD ASSEMBLY <50>

PCB120	X-A2A309E120	PCBASS'Y	
R1001	NRSA63J-103X	MG RESISTOR	10KΩ,1/16W
R1002	NRSA63J-472X	MG RESISTOR	4.7KΩ,1/16W
R1003	NRSA63J-472X	MG RESISTOR	4.7KΩ,1/16W
R1004	NRSA63J-472X	MG RESISTOR	4.7KΩ,1/16W
R1005	NRSA63J-472X	MG RESISTOR	4.7KΩ,1/16W
R1006	NRSA63J-103X	MG RESISTOR	10KΩ,1/16W
R1007	NRSA63J-102X	MG RESISTOR	1KΩ,1/16W
R1008	NRSA63J-472X	MG RESISTOR	4.7KΩ,1/16W
R1009	NRSA63J-472X	MG RESISTOR	4.7KΩ,1/16W
R1010	NRSA63J-472X	MG RESISTOR	4.7KΩ,1/16W
R1011	NRSA63J-472X	MG RESISTOR	4.7KΩ,1/16W
R1012	NRSA63J-102X	MG RESISTOR	1KΩ,1/16W
R1013	NRSA63J-472X	MG RESISTOR	4.7KΩ,1/16W
R1014	NRSA63J-472X	MG RESISTOR	4.7KΩ,1/16W
R1015	NRSA63J-472X	MG RESISTOR	4.7KΩ,1/16W
R1016	NRSA63J-472X	MG RESISTOR	4.7KΩ,1/16W
R1017	NRSA63J-472X	MG RESISTOR	4.7KΩ,1/16W
R1018	NRSA63J-472X	MG RESISTOR	4.7KΩ,1/16W
R1019	NRSA63J-100X	MG RESISTOR	10Ω,1/16W
R1020	NRSA63J-472X	MG RESISTOR	4.7KΩ,1/16W
R1021	NRSA63J-472X	MG RESISTOR	4.7KΩ,1/16W
R1023	NRSA63J-102X	MG RESISTOR	1KΩ,1/16W
R1024	NRSA63J-102X	MG RESISTOR	1KΩ,1/16W
R1027	NRSA63J-102X	MG RESISTOR	1KΩ,1/16W
R1028	NRSA63J-102X	MG RESISTOR	1KΩ,1/16W
R1033	NRSA63J-100X	MG RESISTOR	10Ω,1/16W
R1034	NRSA63J-472X	MG RESISTOR	4.7KΩ,1/16W
R1035	NRSA63J-472X	MG RESISTOR	4.7KΩ,1/16W
R1036	NRSA63J-472X	MG RESISTOR	4.7KΩ,1/16W
R1037	NRSA63J-472X	MG RESISTOR	4.7KΩ,1/16W
R1038	NRSA63J-472X	MG RESISTOR	4.7KΩ,1/16W
R4001	NRSA63J-2R2X	MG RESISTOR	2.2Ω,1/16W
R4002	NRSA63J-472X	MG RESISTOR	4.7KΩ,1/16W
R4003	NRSA63J-472X	MG RESISTOR	4.7KΩ,1/16W
R4004	NRSA63J-472X	MG RESISTOR	4.7KΩ,1/16W
R4005	NRSA63J-181X	MG RESISTOR	180Ω,1/16W
R4006	NRSA63J-101X	MG RESISTOR	100Ω,1/16W
R4007	NRSA63J-181X	MG RESISTOR	180Ω,1/16W
R4008	NRSA63J-181X	MG RESISTOR	180Ω,1/16W
R4009	NRSA63J-181X	MG RESISTOR	180Ω,1/16W
R4010	NRSA63J-101X	MG RESISTOR	100Ω,1/16W
R4011	NRSA63J-472X	MG RESISTOR	4.7KΩ,1/16W
R4012	NRSA63J-472X	MG RESISTOR	4.7KΩ,1/16W
R4013	NRSA63J-181X	MG RESISTOR	180Ω,1/16W
R4014	NRSA63J-181X	MG RESISTOR	180Ω,1/16W
R4015	NRSA63J-181X	MG RESISTOR	180Ω,1/16W
R4016	NRSA63J-181X	MG RESISTOR	180Ω,1/16W
R4017	NRSA63J-181X	MG RESISTOR	180Ω,1/16W
R4018	NRSA63J-181X	MG RESISTOR	180Ω,1/16W
R4020	NRSA63J-472X	MG RESISTOR	4.7KΩ,1/16W
R4021	NRSA63J-105X	MG RESISTOR	1MΩ, 1/16W
R4024	NRSA63J-102X	MG RESISTOR	1KΩ,1/16W
R4025	NRSA63J-101X	MG RESISTOR	100Ω,1/16W
R4027	NRSA63J-101X	MG RESISTOR	100Ω,1/16W
R4028	NRSA63J-101X	MG RESISTOR	100Ω,1/16W
R4029	NRSA63J-101X	MG RESISTOR	100Ω,1/16W
R8501	NRSA63F-151X	MG RESISTOR	150Ω,1/16W 1%
R8502	NRSA63F-151X	MG RESISTOR	150Ω,1/16W 1%
R8503	NRSA63J-103X	MG RESISTOR	10KΩ,1/16W
R8504	NRSA63F-151X	MG RESISTOR	150Ω,1/16W 1%
R8505	NRSA63F-750X	MG RESISTOR	75Ω,1/16W 1%
R8506	NRSA63F-750X	MG RESISTOR	75Ω,1/16W 1%

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
		R8507	NRSA63F-750X	MG RESISTOR	75Ω,1/16W 1%
		R8508	NRSA63F-750X	MG RESISTOR	75Ω,1/16W 1%
		R8509	NRSA63F-750X	MG RESISTOR	75Ω,1/16W 1%
		R8510	NRSA63F-750X	MG RESISTOR	75Ω,1/16W 1%
		R8513	NRSA63J-102X	MG RESISTOR	1KΩ,1/16W
		R8514	NRSA63J-102X	MG RESISTOR	1KΩ,1/16W
		R8515	NRSA63J-103X	MG RESISTOR	10KΩ,1/16W
		R8516	NRSA63F-151X	MG RESISTOR	150Ω,1/16W 1%
		R8517	NRSA63J-221X	MG RESISTOR	220Ω,1/16W
		R8518	NRSA63F-182X	MG RESISTOR	1.8KΩ,1/16W 1%
		R8519	NRSA63F-103X	MG RESISTOR	10KΩ,1/16W 1%
		R8520	NRSA63J-102X	MG RESISTOR	1KΩ,1/16W
		R8521	NRSA63J-271X	MG RESISTOR	270Ω,1/16W
		R8522	NRSA63J-103X	MG RESISTOR	10KΩ,1/16W
		R8523	NRSA63J-103X	MG RESISTOR	10KΩ,1/16W
		R8524	NRSA63J-102X	MG RESISTOR	1KΩ,1/16W
		C1001	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C1002	X-CS0PCH4G1J	CAPACITOR	18pF,50V
		C1003	X-CS0PCH4G1J	CAPACITOR	18pF,50V
		C1004	X-E524U1221D	E CAPACITOR	220µF,10V
		C1005	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C1006	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C1007	X-E524U1221D	E CAPACITOR	220µF,10V
		C1008	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C1009	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C1010	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C1011	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C1012	NCB31CK-104X	CAPACITOR	0.1µF,16V
		C1014	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C4001	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C4002	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C4003	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C4004	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C4005	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C4006	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C4007	NCB31HK-102X	CAPACITOR	0.001µF,50V
		C4008	X-E524U1221D	E CAPACITOR	220µF,10V
		C4009	NCB31CK-473X	CAPACITOR	0.047µF,16V
		C4010	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C4012	X-CS0PCH450C	CAPACITOR	5pF,50V
		C4014	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C4015	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C4016	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C4017	X-E524U1221D	E CAPACITOR	220µF,10V
		C4018	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C4019	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C4020	X-E524U0470D	E CAPACITOR	47µF,6.3V
		C4021	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C4022	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C4025	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C8501	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C8502	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C8503	X-E524U2100D	E CAPACITOR	10µF,16V
		C8504	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C8505	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C8506	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C8507	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C8508	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C8509	X-E524U2470D	E CAPACITOR	47µF,16V
		C8510	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C8511	NCB31EZ-104X	CAPACITOR	0.1µF,25V

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
		C8512	X-CS0RB0216K	CAPACITOR	1µF,16V
		C8514	X-E524U2470D	E CAPACITOR	47µF,16V
		C8515	X-CS0PCH4H1J	CAPACITOR	22pF,50V
		C8517	X-CS0PCH4H1J	CAPACITOR	22pF,50V
		C8518	X-CS0PCH4H1J	CAPACITOR	22pF,50V
		C8519	NDC31HJ-151X	CAPACITOR	150pF,50V
		C8520	X-CS0PCH4K2J	CAPACITOR	270pF,50V
		C8521	X-CS0PCH4L2J	CAPACITOR	330pF,50V
		C8522	X-CS0PCH4L2J	CAPACITOR	330pF,50V
		C8523	X-E524U0470D	E CAPACITOR	47µF,6.3V
		C8524	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C8525	X-CS0PCH4H1J	CAPACITOR	22pF,50V
		C8526	X-CS0PCH4H1J	CAPACITOR	22pF,50V
		C8527	X-CS0PCH4K2J	CAPACITOR	270pF,50V
		C8528	X-CS0PCH4K2J	CAPACITOR	270pF,50V
		C8529	X-CS0PCH4L2J	CAPACITOR	330pF,50V
		C8530	X-CS0PCH4L2J	CAPACITOR	330pF,50V
		C8531	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C8532	X-CS0PCH4K2J	CAPACITOR	270pF,50V
		C8533	X-CS0PCH4H1J	CAPACITOR	22pF,50V
		C8534	X-E524U0470D	E CAPACITOR	47µF,6.3V
		C8535	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C8536	X-E524U0220D	E CAPACITOR	22µF,6.3V
		C8537	X-E524U0220D	E CAPACITOR	22µF,6.3V
		C8538	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C8539	X-CS0PCH4K2J	CAPACITOR	270pF,50V
		C8548	X-CS0PCH4L2J	CAPACITOR	330pF,50V
		C8549	X-CS0PCH4L2J	CAPACITOR	330pF,50V
		C8551	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C8552	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C8553	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C8554	NCB31EZ-104X	CAPACITOR	0.1µF,25V
		C8555	X-E524U1221D	E CAPACITOR	220µF,10V
		C8556	X-E524U0220D	E CAPACITOR	22µF,6.3V
		C8557	X-E524U54R7D	E CAPACITOR	4.7µF,50V
		D1002	1SS355	DIODE	
		D1003	1SS355	DIODE	
		D1004	1SS355	DIODE	
		D8501	1SS355	DIODE	
		D8502	1SS355	DIODE	
		D8503	1SS355	DIODE	
		D8504	1SS355	DIODE	
		D8505	1SS355	DIODE	
		D8506	1SS355	DIODE	
		D8507	1SS355	DIODE	
		D8508	1SS355	DIODE	
		D8509	1SS355	DIODE	
		D8510	1SS355	DIODE	
		D8511	1SS355	DIODE	
		D8512	1SS355	DIODE	
		IC1001	X-ICQF067031	IC	ZR36703BF
		IC1006	X-I57F04C01W	IC	BR24C01AF-WE2
		IC4001	X-ICQF067101	IC	ZR36710
		IC4002	X-ICLJ0610DB	IC	HY57V161610DTC-8
		IC8501	X-I5VF0861K0	IC	BT861KRF
		IC8503	X-I17F017480	IC	PCM1748E
		IC8504	SN74LV4052APW-X	IC	SN74LV4052APW
		Q8501	2SC2412K/RS/-X	TRANSISTOR	
		Q8502	2SC2412K/RS/-X	TRANSISTOR	
		Q8503	2SA1037AK/RS/-X	TRANSISTOR	
		B1001	X-024HC36001	CORE,BEADS	

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
		B4001	X-024HC36001	CORE,BEADS	
		B4002	X-024HC36001	CORE,BEADS	
		B4003	X-024HC36001	CORE,BEADS	
		B8501	X-024HC36001	CORE,BEADS	
		B8502	X-024HC36001	CORE,BEADS	
		B8503	X-024HC36001	CORE,BEADS	
		B8505	X-024HC36001	CORE,BEADS	
		L8501	X-02167F1R8K	COIL	1.8µH
		L8502	X-02167F1R8K	COIL	1.8µH
		L8503	X-02167F1R8K	COIL	1.8µH
		L8504	X-02167F1R8K	COIL	1.8µH
		L8505	X-02167F1R8K	COIL	1.8µH
		L8506	X-02167F1R8K	COIL	1.8µH
		L8507	X-X-02AHB9A972	CORE,FERRITE	
		CD4001	X-122S0Q0901	CORD,JUMPER	
		CD4002	X-122S0G0901	CORD,JUMPER	
		CP4001	X-069JVQ0180	CONNECTORPCBSIDE	
		CP4002	X-069JVG0180	CONNECTORPCBSIDE	
		CP8502	X-069J7I0019	CONNECTORPCBSIDE	
		X1001	X-100CT01210	CRYSTAL	12.5MHz
		X4001	X-100WT02706	CRYSTAL	27MHz
		CD8501	X-06CU2D2501	CORD,CONNECTOR	

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OPERATION BOARD ASSEMBLY <28>

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
		PCB270	X-A2A309E270	PCBASS'Y	
		R681	QRE141J-133Y	RESISTOR	13KΩ,1/4W
		R683	QRE141J-682Y	RESISTOR	6.8KΩ,1/4W
		R685	QRE141J-392Y	RESISTOR	3.9KΩ,1/4W
		R687	QRE141J-272Y	RESISTOR	2.7KΩ,1/4W
		R688	QRE141J-332Y	RESISTOR	3.3KΩ,1/4W
		R689	QRE141J-103Y	RESISTOR	10KΩ,1/4W
		R690	QRE141J-561Y	RESISTOR	560Ω,1/4W
		D681	X-0021E5Q210	LED	LTL-1CHGE-002A
		SW681	X-0504201T32	TACT SWITCH	
		SW682	X-0504201T32	TACT SWITCH	
		SW684	X-0504201T32	TACT SWITCH	
		SW686	X-0504201T32	TACT SWITCH	
		SW688	X-0504201T32	TACT SWITCH	
		SW689	X-0504201T32	TACT SWITCH	
		CP681	X-069R750499	CONNECTOR PCB SIDE	